

D3.3 Final Customer Feedback Report Version 0

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Table of Contents

Executive Summary	4
1. Introduction	4
2. Customer Feedback	5
2.1 Customer Feedback through Surveys	5
2.1.1 Performance Assessment Feedback	5
2.1.2 Proof of Concept Feedback	19
2.2 Return on Investment Feedback	22
2.3 Customer Feedback through Interviews	23
2.4 Recommendations	27
3. Conclusion	27
Acronyms and Abbreviations	28
List of Figures	28
List of Tables	28



Executive Summary

This report summarizes the findings of the customer advocate work package (WP3) and how they influenced its operation during the whole project. It provides a list of recommendations considered in the operation of the Centre of Excellence to maximize customers (users) satisfaction. The feedback from users on the quality of POP CoE services they received, is detailed and analysed in this report.

1. Introduction

The objective of WP3 "Customer Advocacy" is to verify that the activities of the POP CoE are being performed to the satisfaction of POP users and to provide feedback to the governing board of the project. The customer advocate collects evaluations from users and then uses this information to influence project operations, to help ensure that the target of more than 90% customer satisfaction is met.

To achieve this objective, the methodology previously described in deliverable D3.1 and D3.2 is applied. This methodology includes several types of interaction, with both, the users - to collect their feedback, and the POP analysts - to relay this information to improve the quality of the services. This may involve:

- Invitations sent to users to fill in the appropriate survey, each time a POP service had been completed and the corresponding report received by them.
- The survey feedback is transmitted to the POP analysts who performed the service so that they can better satisfy the needs of users. The survey is also published on the WP3 POP Wiki pageⁱ.
- A given survey may be followed up by an interview, to explore or clarify potential issues or to better understand the user's expectations. The interview is also an opportunity to keep in touch with the users and to keep listinning to their needs. The minutes of the interview are validated by the user and then published on the WP3 POP Wiki pageⁱⁱ.

All these actions not only help guarantee the best quality of POP services but also enable us to maintain links with POP users to build a POP user community.

The following sections of the report detail the customer feedback and present the suggestions provided to POP experts to maintain and enhance the quality of the services provided by the POP CoE.



2. Customer Feedback

2.1 Customer Feedback through Surveys

Each time a Performance Assessment or a Proof-of-Concept is completed, the corresponding survey is sent to the end-user who benefited from this POP service and in most cases, an interview by video conferencing is organized to obtain more details or clarifications about the answers or requests of the user. All surveys are published on the POP2 Wiki Portal, POP experts can consult and appreciate the feedback related to their work, and if necessary take the appropriate measures to correct any issu.

As of today (November 20, 2021), a total of 101 answers to the surveys have been gathered for both, PA and POC services.

Copies of the users' answers are assembled in Annex I for the performance assessment (PA) surveys and Annex II for the Proof of concept (PoC) surveys.

2.1.1 Performance Assessment Feedback

Up to November 20, 127 Performance assessments were performed by POP experts and the correspondant reports deliverd to users. 127 invitations to answer the PA survey were sent to the users. We gathered 88 answers, this represents an answer rate of 70%

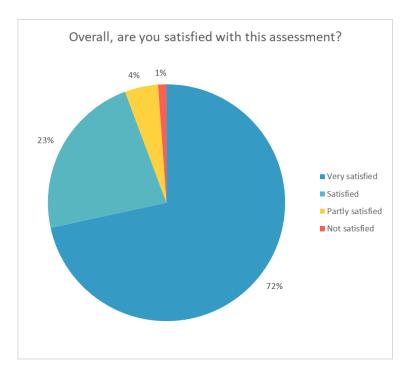


Figure 1 Performance Assessment Overall satisfaction

The overall satisfaction is very good. Indeed, more than 95% of users are satisfied or very satisfied with the PA service as shown in figure 1. A compilation of the answers to the PA survey is provided in Annex I.

Four users are partly satisfied and only one user-declared his dissatisfaction.



Table 1 presents comments of users who answered "Partly satisfied".

Reference	Overall, are you satisfied with this assessment?	Could you say why?
POP2_AR_004	Partly satisfied	I hoped for more feedback.
POP2_AR_044	Partly satisfied	Someone else from POP started the project and then left POP.
POP2_AR_074	Partly satisfied	The Analysis focused on a code region that had a high runtime only due to instrumentation overhead. Although the respective code region now is faster with the suggestions implemented from the performance report, the overall performance benefit is very small.
POP2_AR_096	Partly satisfied	Unexpected delays

Table 1, Partially satisfied user comments

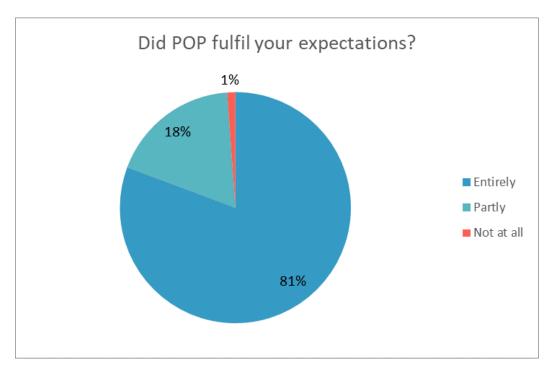


Figure 2 how users' needs are met

As shown in figure 2, 81% of users find that the PAs have fully met their expectations. Some users explain the reasons for their partial satisfaction, their comments are presented in table 2:



Reference	Any suggestions for improvement of the Performance Assessment?
POP2_AR_004	Please provide feedback proactively.
	I'd rather prefer to have a report with routines, or code fragments named that are the cause of the inefficient or unexpected behavior than having the performance analysis output files for self-evaluation.
POP2_AR_021	Occasionally the results were not good when using a specific number of cores. This is due to the way the equation solver was parallelized. No solution was found how to get a better way of parallelizing the solution of the linear equations
POP2_AR_023	It would have been nice to have been able to include a GPU-based system in the evaluation.
POP2_AR_034	It was very useful to get the analysis - currently, the work is ongoing to remedy the problems and to improve the efficiency
POP2_AR_051	Some issues where AMD architecture didn't support much output data so limited analysis possible.
	Highlighted areas of the MPI comms that were taking significant time but we have insufficient knowledge and experience to convert that result into a performance improvement.
POP2_AR_075	The POP assessment was already useful and interesting, however as discussed with the POP expert this could be made even more useful if repeated in the future for a larger, more realistic problem size.
POP2_AR_093	Comparison with other reports would be useful, but they are all confidential.

Table 2, Partly fulfill the expectation of POP User



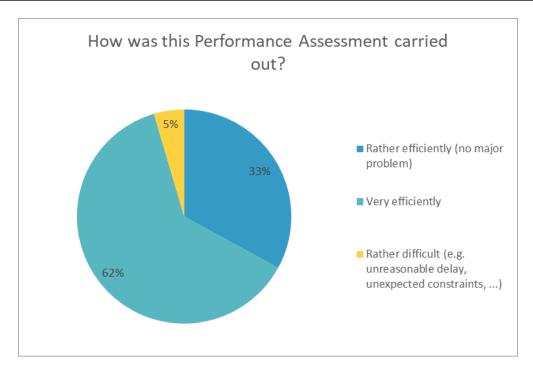


Figure 3 Performance Assessment effectiveness statistic

Concerning the way the PA was carried out, only 4 POP users found the performance analysis rather difficult. More than 95% of the users declare that their PA was efficiently or very efficiently carried out (Figure 3). According to POP users, the reasons mentioned for the few encountered difficulties are for the unexpected delay, inadaptation of tools to Python programs, change of POP expert during the assessment, and some issues of Extrae tool running on an AMD based cluster.

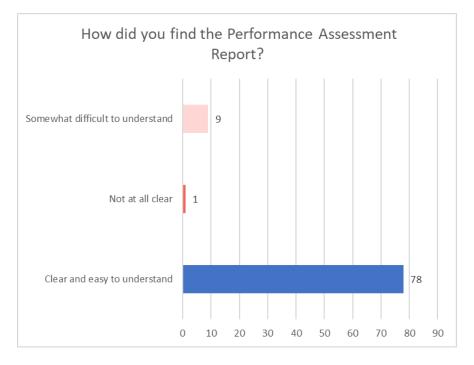


Figure 4 Users' satisfaction with PA reports



Figure 4 shows the degree of satisfaction of POP users for the report provided by POP experts. The report is the only document left by the expert after the audit, so it is very important that it is well understood by the user. More than 88% of the users find the report easy to understand whether 9 users found the report difficult to understand. This is mainly because users are not familiar with assessment tools and methodologies used by POP experts. Some of them made the following remarks:

Reference	Comments on user satisfaction with the PA report
POP2_AR_004	I never received a report. I got an email with some hints and two score-p output files. Further analysis output files were provided on the system.
POP2_AR_007	No real insights. No actionable recommendations
POP2_AR_025	Personally, I am not an informatician / IT-expert so it takes some more time to understand some plots
POP2_AR_030	It was not so clear how understanding performance projections making assumption on the values of some metrics. But conversations with experts were very important to better understand.
POP2_AR_031	Some more explanation about performance projections were needed
POP2_AR_044	It was much easier to understand when presented orally than it was as a written-only report.
POP2_AR_075	Some of the metrics were different to what I have previously encountered, however after explanation from the POP expert, things became much clearer.
POP2_AR_078	Report was clear but some of the HPC concepts are hard to really understand in order to fully benefit from the support
POP2_AR_093	What looked like poor scaling wasn't actually bad.

Table 3, Unsatisfied users with PA report



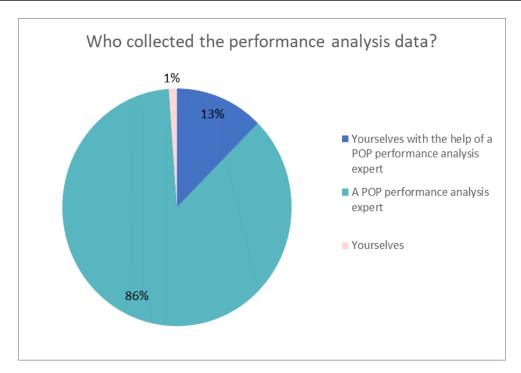


Figure 5 Performance Assessment data collection statistic

The degree of involvement of the users in the PAs varies from one user to another. The Assessment itself is performed by a POP expert; the user involvement is generally limited to the collection of the data produced by analysis tools (Figure 5).

During the performance assessment, only one user collected the data by himself, in most of the cases the user was not involved in the data collection.

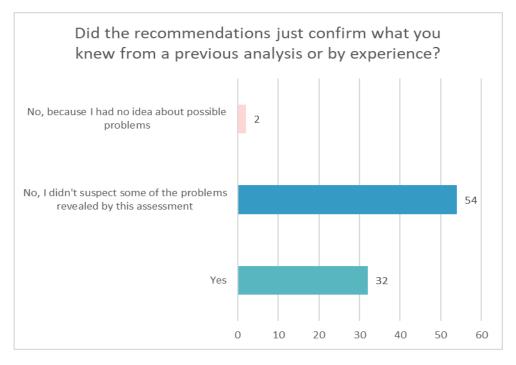


Figure 6 Performance Assessment problems expected statistics



Figure 6 indicates that most users didn't suspect the problems revealed by the assessment (61%). Only 32 of them are aware of the performance problems revealed by POP experts. This confirms the importance of the contribution made by the services provided by POP.

Other threads Inefficient communications (MPI, I/O, ...) Poor scalability

Figure 7 Performance Assessment unexpected problems

Load inbalance

Figure 7 illustrates the main unexpected problems revealed by the assessments performed by POP experts. We find essentially inefficient communication problems, poor scalability, or load imbalance.

Some less frequent unexpected problems were reported by POP users, we

can point out the following:

- Routine responsible for superlinear speedup
- Scalability degradation introduces the second level of parallelization to MPI, i.e. OpenMP
- The scalability of IPC has unexpected behavior.
- Hardware issues on specific nodes.
- Identification of replicated code
- the low arithmetic intensity in certain regions
- System noise
- Low IPC region, likely due to reading from other processes memory
- Big memory copy operations in boundary exchange routines
- Bug in implementation for higher numbers of MPI processes, inefficient load balancing in some corner cases



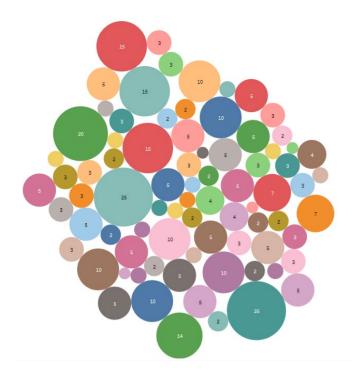


Figure 8 Performance Assessment user's effort (in days)

The effort required by the user to perform the Performance Assessment varies from a user to another and depends on the complexity of the code. In general, we observe an average effort of 5.4 days depending on the degree of involvement of the user in tools installation and data collection (Figure 8).

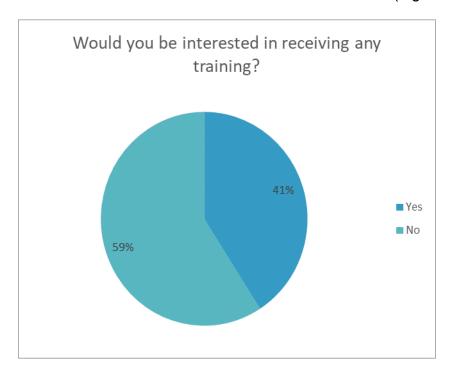


Figure 9 Request for trainings



A proportion of 41% of POP users would be interested in receiving a training (Figure 9), some of them ask for the following training:

- Bottleneck detection
- Training w/ HPC analysis tools, such as those offered by POP (Extrae / Paraver).
- Profiling tools (e.g. score-p), profiling CUDA
- OpenFOAM c++ libraries, especially their parallel structure.
- MPI HPC Optimisation
- GPU programming and porting
- Use of simultaneous threads
- Load balancing / vectorization
- Refactoring techniques

We point out that sevral trainings and workshops are offered by POP experts on these subjects, so the requests of POP uers concerning trainings are genrally satisfied.

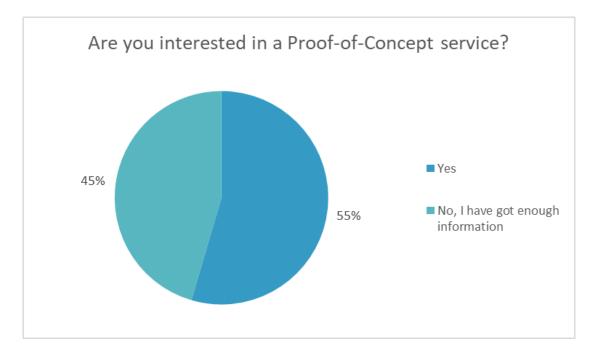


Figure 10 Proof of Concept request statistics

Several of POP users who received a PA, like to continue with a Proof of Concept. Actually, almost 55% of POP users asked for a Proof of concept in order to learn how to modify efficiently their code and improve its performance (Figure 10).



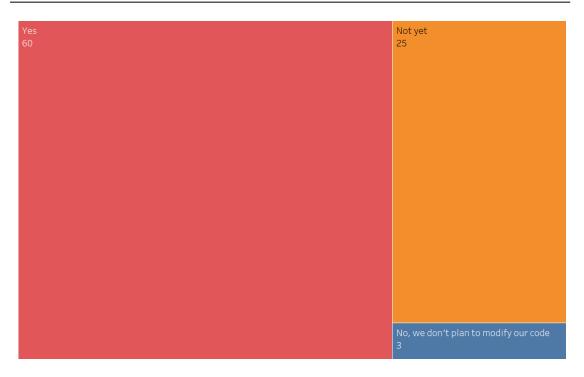


Figure 11 intention of users to modify their code

Following the audit, 68% of POP users plan to modify their code (Figure 11). Most users plan apply POP experts' recommendations 6 months to one year after the end of the service (Figure 12). In practice, we remark that, for different reasons, these modifications can take more time than planned.

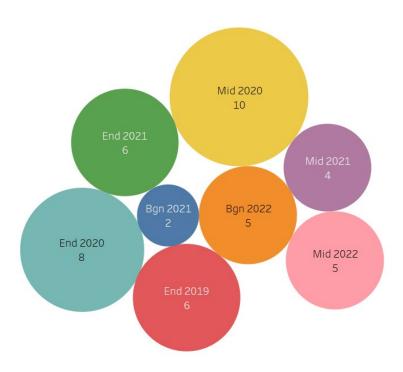


Figure 12 Expected date for code modification



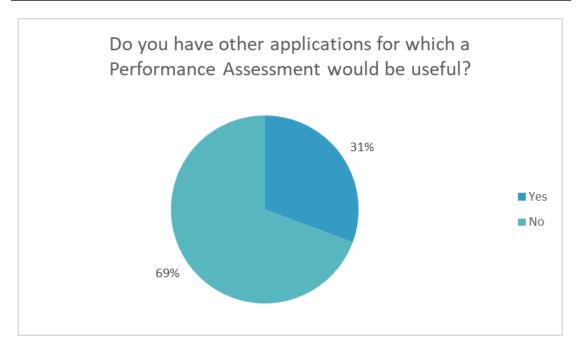


Figure 13 Re-enrollment potential statistic

According to figure 13, 31% of users declared they have other applications or codes to submit to POP experts.



Figure 14 Readiness to pay for Performance Analysis services

Only a few users declared be ready to pay for PA services (Figure 14). The 5 users ready to pay for POP services are:

- UTH Zurich: several thousand
- UCL: a couple of thousands of Euros
- INGV



- BSC: At the hourly price of an experienced engineer (R3-R4) that we pay at BSC
- Laboratoire de météorologie dynamique Polytechnique

In addition, the amounts they can budget for such services are not very high and can't completely cover the services' costs.

Table 4 presents the reasons invoked by the users who are not sure or do not want to pay for this service.

Reference	Why you cannot pay for PA services
POP2_AR_003	We should have a code quite different from current codes in order to take full advantage of a Performance Assessment Service
POP2_AR_007	It did not provide us with any value.
POP2_AR_015	Not sure if our organisation can pay for these services.
POP2_AR_016	Funding unavailable
POP2_AR_017	Own expertise in house
POP2_AR_019	lack of funds
POP2_AR_021	CalculiX is an Open-Source code without financial resources
POP2_AR_022	Profiling didn't show any unknown issue (mostly because profiling tools couldn't handle parallelization strategy of MPI+OpenMP+pthreads).
POP2_AR_023	The motivation for us is to obtain an independent and unbiased performance assessment on systems that we do not have access to using metrics that we do not typically use. Otherwise, we could (with more effort of course) conduct the assessment ourselves. However, this might not be the case for other application users/developers.
POP2_AR_025	We are in close contact with JSC and would think that in the context of the collaborations a performance assessment can be made
POP2_AR_030	It depends on the cost. After this experience, we think we could get an approximated Performance Assessment by our own. Expertise from POP is surely an added value; therefore, the cost should be bound to the delta of what we could get by our own and what can be obtained with an expert assessment. Moreover, paying for PA depends on the readiness level of the code under investigation.
POP2_AR_031	It depends on the cost. Getting some more information about PA, we probably will be able to get an approximated PA by our own. Surely, POP experience is an added value. We think the cost should be relative to gap between what we can do by our own and what not. Moreover, we will pay for PA of a code with a certain level of readiness or of a code our experience in performance assessment cannot tell us enough to get a better performance.



POP2_AR_033	no so much funds dedicated to that in our university
POP2_AR_034	difficult to make any prediction whilst the corona problem and its impact on businesses ongoing
POP2_AR_035	This would require a change in company policy for money allocated for computing services other than specific HPC vendor related, which is outside my area of responsibility.
POP2_AR_036	industrial Partner could be interred
POP2_AR_037	price
POP2_AR_042	Own expertise in house
POP2_AR_047	I left my previous position.
POP2_AR_048	Depends on amount of money.
POP2_AR_051	Would need to be more cost effective than just increasing cluster resource.
POP2_AR_052	We are academic institution and it would depend on funding situation/restriction associated with funding. However, we probably include funding for such services into budget of our future grant applications.
POP2_AR_053	requires further success stories
POP2_AR_054	Depends on the cost and if this cost can be publicly funded.
POP2_AR_060	I would definitely consider it useful and would be ready to pay for the service from our project, but not sure if administratively would be easy/possible.
POP2_AR_061	we are SME
POP2_AR_062	We do not have the money for it
POP2_AR_066	Access to the Performance Assessment service would be strongly recommended from our side, but any budget consideration concerning our organization needs the authorization from our hierarchical superiors.
POP2_AR_068	It depends on the available credits
POP2_AR_070	Depends on cost
POP2_AR_071	Since BDDCML is a scientific code, this ability depends on available funding on our side.
POP2_AR_072	We have not talked about it yet.
POP2_AR_073	Depend on the available fundings and service costs
POP2_AR_075	Although this could potentially be useful, I'm not sure if/where I would be able to find the budget to pay for it.
POP2_AR_077	no funds devoted to this aim.



Reference	Why you cannot pay for PA services
POP2_AR_078	Academic Research does not usually pay for collaboration, but things are changing and I will personally agree to pay for such high-quality service.
POP2_AR_079	I am generally not involved in budget decisions
POP2_AR_080	It would depend on what individual academics would want - we could recommend it but would need them to make the decision on if they wanted the service or not.
POP2_AR_081	My organization is a current POP member
POP2_AR_083	I think it is a very valuable service, but not sure how difficult (administratively) would be to use project money to pay for such a service.
POP2_AR_090	It is not clear from the report how to proceed to improve performance (performance is already very good).
POP2_AR_092	There are no specific funds available at our university for external support towards code development.
POP2_AR_093	The code is developed by the community at zero cost.
POP2_AR_094	My application is relatively simple, and once improved, any further testing would not be necessary.
POP2_AR_102	Needs funding which is hard to get
POP2_AR_104	It depends whether there will be a grant project. My institution will not pay it.
POP2_AR_107	Not sure how the university I work for would deal with that. Maybe as part of another grant or something. Not sure.
POP2_AR_109	too few people involved in code improvement in our lab.
POP2_AR_112	I don't currently have a budget for this, but it was very useful so we would consider it if possible.
POP2_AR_115	Lack of funds devoted to this particular aim
POP2_AR_119	Funding
POP2_AR_120	It would depend on the prices, and the corresponding eligibility for funding as part of an ANR or EU project
POP2_AR_121	This should be checked with our hierarchy
POP2_AR_125	We have internal performance tool and collaborator, and this would be preferred against a service to be paid.
POP2_AR_130	Depends on policies that are out of my control, this activity has been carried out within an EU funded project, we should see if part of such funding could be used to pay for these services in the future



Table 4, Reasons why users are not sure to pay for POP services

More than 90% of POP users are sure to recommend POP services to their colleagues and partners. The remaining 10 % of users say they possibly recommend POP services and made the remarks reported in table 5.

Reference	Why you will not recommend POP to your colleagues
POP2_AR_004	Normal users in the earth system modelling community would not analyze performance analysis tool output files. They'd rather prefer a hint to specific parts of the code.
POP2_AR_022	POP service was fast but not necessarily suited for HPC groups but might be very useful for groups that do not have much HPC experience or a less tuned code basis
POP2_AR_090	If colleagues need help for performance improvements
POP2_AR_123	Why not? It was helpful.

Table 5, Users who may recommend POP2 PA services

The most common reasons for refusal to pay PA services are the lack of funds, or the presence of in-house expertise, or the fact of having learned to use analysis tools through the expertise and training provided by POP experts.

2.1.2 Proof of Concept Feedback

A PoC is a service that follow a PA service and generally take a longer time to be carried out (6 months for a PoC vs 3 months for a PA). For the PoCs, we have a lower response rate (65%) than for Pas. We have

collected 13 responses to 20 invitations to complete the PoC survey.

We point that others PoCs are in progress.



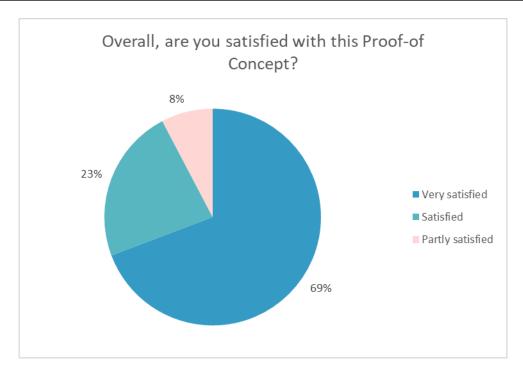


Figure 15 Proof of Concept overall satisfaction

The overall satisfaction is globally for PoCs are very good, 92% of users are satisfied or very satisfied with the POC service. Only one user-declared he is partly satisfied, this user requested "we need more expertise".

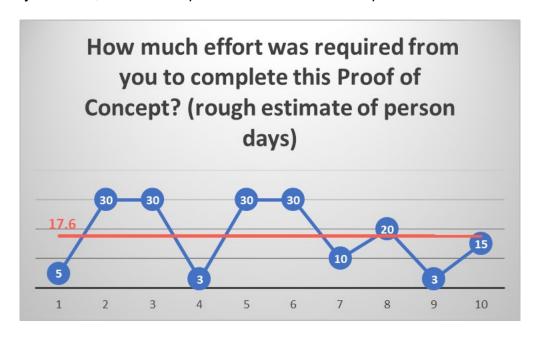


Figure 16 User effort for Proof of Concept

Since the PoC service takes longer to run, it requires a higher degree of user involvement and their better interaction with the POP expert.

Figure 16 shows the contribution of users, in terms of effort to the realisation of the PoC. This can vary from a few days to a month depending on their degree of involvement, with a average of 17.6 days.



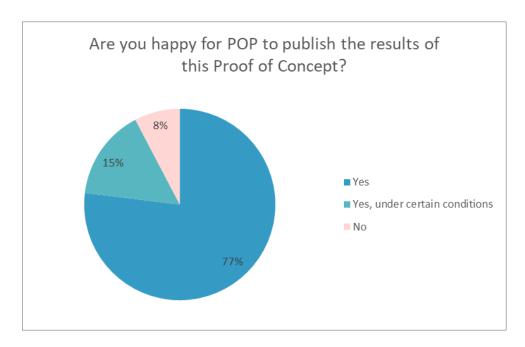


Figure 17 Readiness to pay for Proof-of-Concept services

As presented in figure 17, a majority of PoC beneficiaries agree to publish the results of their PoCs. These PoCs usually result in success stories posted on the POP web page.

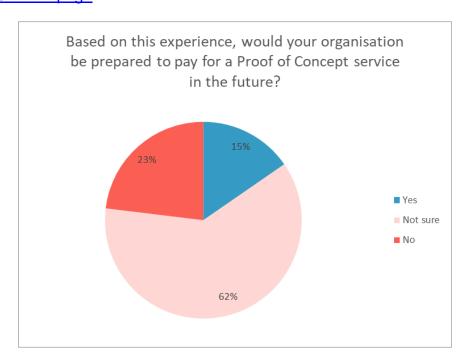


Figure 18 Readiness to pay for Proof-of-Concept services

Like for the Performance assessment service, few POP users declared be ready to pay for POC services. In fact, only two users (UCL, UK & Optimad, Italy) are ready to pay for PoC services. Optimad said that they can invest up to 10k€ for a POC.



2.2 Return on Investment Feedback

Return on investment survey is generally sent 6 months after the POC service is provided to users, for that the number of users eligible to complete this questionnaire at this time is low. In addition, this questionnaire requires more thought to be completed. Despite contacting users before sending the questionnaire, we have a very low response rate.

Only 4 users replied to the Return-on-Investment survey, three of them estimate runtime reduction around 10% and one of them declared a runtime reduction by more than 50%.

Two users have implemented all the POP experts' recommendations and two others have partly implemented these recommendations.

Three of them have added new features or have evolved some of the algorithms while refactoring their codes. To implement the recommendations, they spent from few days to few weeks (from 3 days to 3 weeks), which represents a cost of less than 5k€ for the most expensive one. Compared to the gain on computation costs, this can be considered as a negligible investment even if the users were unable to estimate the financial gain after these modifications at this time.

We will continue asking users to complete the ROI survey during the extension period of the project.

Ability to run larger problem
Improved workflow by reducing runtime
More knowledge and
awareness of
performance profiling
Better scalability

Figure 19 Code improvement declared by POP users

The main improvements the users noticed are better scalability, and More knowledge and awareness of performance profiling (figure 19)



2.3 Customer Feedback through Interviews

In addition to PA and POC surveys, and in some cases, we invited POP users to a digital meeting to clarify and deepen some topics or to answer some of their questionings. Up to 20 November 2021, we sent 106 invitations to interviews and we have realized 33 interviews. All interviewed users are globally very satisfied, while making few remarks about how the assessment went or how it can be improved.

Some users have experienced some difficulties installing analysis tools. Here are their comments:

Reference	Quote
POP2_AR_001	"We struggled to install analysis tools, but BSC was very responsive to help us."
POP2_AR_015	"The most complex thing for me, was the set-up of the application to take traces and record information."
POP2_AR_035	"Initially, I used an Extrae version that didn't quite work. I spoke to BSC developers, and they gave me then a new version which I installed. They fixed that and then I ran with that special version that's the only incident I remember."
POP2_AR_060	"In the beginning, when I tried to get the traces there was some complication on actually getting the traces, because I use Pthreads for some part of the code. I don't know the tool very well. I just told BSC about the problems that I had and very quickly They managed to provide some solutions to change the script, and then the traces were okay."

Table 6, Interview quotes for users who have experienced some difficulties with tools

Few users report some slowness with the completion of the service. Table 7 presents their comments.

Reference	Quote
POP2_AR_004	"It would be better if the whole process goes faster."
POP2_AR_017	"As always it could be somewhat faster, but the main hold up for me is that the time frame could have been communicated better."
POP2_AR_044	"It took a long time but with the circumstances with the original POP expert leaving the project and his chief taking over, I can understand why it took so long so it's not so bad."
POP2_AR_051	"If it was faster, we would have been able to probably make more use of it. Another problem is a lot of complexities for getting the tools working."
POP2_AR_109	"The audit took a long time to start, the beginning was laborious."



Table 7, Interview quotes for users reporting a slowness with the completion of the service

Some users would have liked face-to-face meetings with the expert. This is not always feasible since the users and experts are dispersed over several European countries, in addition to Covid 19 problems.

Reference	Quote
POP2_AR_004	"Perhaps it would be good if you have better formalism with a meeting at the beginning for the code exchange and to explaining the problem and another one for the final report explaining the results and recommendations."
POP2_AR_034	"Because of COVID, the communication was a little bit difficult. if we could communicate face to face it would be much better but in the current situation, we couldn't do that."
POP2_AR_079	"From my point of view, the performance analysis lacked face to face meetings mainly due to the covid"

Table 8, Interview quotes for users would have liked face-to-face meetings

Some users have liked more indication in the report to be able to reproduce the performance analysis. This kind of service is delivered by the trainings and the workshops provided by POP experts.

Reference	Quote
POP2_AR_017	"The Data delivery that would have been interesting for me. Maybe having this option available would have been nice because then we could have done a little bit more with the profiles and traces ourselves."
POP2_AR_054	"If we could have had an explanation of how to use the analysis tools at the end of the PA in order to be able to reproduce it later, it would be interesting."
POP2_AR_074	"It would be wise to add indications in the report to be able to reproduce the audit later by myself"

Table 9, Interview quotes for users have liked more indication in the report

Other users requested GPU analysis tools for their applications:

Reference	Quote
POP2_AR_036	"I would like to have profiling tools for GPUs and a little more detailed documentation."
POP2_AR_062	"For a future POP service, I would like to have advice on porting and performance analysis on GPUs."

Table 10, Interview quotes for users request GPU analysis tools



The users often report difficulties in the understanding of the code by the expert. This is normal due to the high-level complexity and specialisation of some scientific codes (Table 11).

Reference	Quote
POP2_AR_044	"I had to help POP experts to understand how to run JULES on the supercomputer and that took some time and that was somewhat complex to do."
POP2_AR_079	"Our simulation is very complex, the expert had difficulty understanding the code to optimize it"
POP2_AR_118	"We first encountered problems installing the code, then the expert had difficulty understanding the code. At the end of the audit, we had a lack of computing power on the cluster to go a little further."

Table 11, Interview quotes for users report difficulties on the understanding of the code by the expert

Some users expressed their difficulty in understanding how profiling tools work, table 12 presents their comments on this subject.

Reference	Quote
POP2_AR_035	"I think the hurdle to use the visual analysis tools is too high"
POP2_AR_058	"If there had been a clear correspondence that we could easily see which function calls specifically had the inefficiencies, it would have been easier in PA tools."
POP2_AR_060	"I would like to have like introduction or some idea of how the assessment tool works."

Table 12, Interview quotes for users made remarks about the analysis tools

Few users indicate encoutring difficulties to understand the report:

Reference	Quote
POP2_AR_044	"Recording the oral report and making that publicly available to us would be useful rather than just having a written PowerPoint presentation."
POP2_AR_060	"Maybe the report could include some information about each metrics because if time goes by, maybe I will forget what each of the metrics exactly means, it would be nice to add an appendix or some information about every metric that is calculated in the report means."
POP2_AR_068	"The report was very complex and difficult to understand by someone who is not from the field, during a rereading later after the audit I had to ask the expert to explain me some results again."



Table 13, Interview quotes for users indicate difficulties with the report

Other users reported internal resources issues to correctly perform the PAs:

Reference	Quote	
POP2_AR_036	"We had two types of problems: cluster availability problems due to high attendance and maintenance interventions. This generated a little delay.	
	The optimization proposals require too heavy modifications of the source code and that requires too much human resource and too much investment."	
POP2_AR_058	"We never got the time to properly investigate it and make improvements. It's because it also requires a lot of interpretation."	
POP2_AR_089	"We did not have enough time to properly manage this project"	

Table 14, Interview quotes for users reported internal resources issues

Concerning the code update and performance improvements after the Performance Assessment here are the remarks of some POP users:

Reference	Quote
POP2_AR_001	"We performed some optimisations according to the results of the assessment."
POP2_AR_018	"Code is in evolution. Scalability is good up to 256 cores. Efficiency is improved to 80% while after the PA it was of 53% on 128 cores."
POP2_AR_060	"All POP recommendations are applied."
POP2_AR_016	"Running twice better than before modifications due to improvement in parallelisation, but scalability still bad."
POP2_AR_015	"Started code modifications but needs a lot of resources to refactor the code We never got time to apply the recommended improvements."
POP2_AR_017	"I wish POP all the very best and that continue to serve the HPC community for much longer time it's I find it entirely needed."
POP2_AR_034	"This type of project is really useful for industry because in small companies they don't have the capability and the budget to access to this knowledge."

Table 15, Interview quotes for the code update and performance improvements



2.4 Recommendations

The cross-checking of the various user feedback allowed us to identify a few areas of improvement. Recommendations to the POP team were made through the various team meetings.

Here is a non-exhaustive list of recommendations made to POP experts:

- Systematically organise a (virtual) meeting with the customer to present the results of the PA or PoC.
- Verify that the customers have received the final report and maintain contact with the customers after report delivery.
- Tailor the explanation in the report to the understanding of the user.
- Reduce the delay in answering customers when they request a service.
- After the Performance Assessment ends, some users were contacted for an interview and the POC is explained, they are also informed by the survey.
- Inform POP experts about training and workshops requested by users.
- Motivate the users to answer the surveys.
- Motivate the users to continue the collaboration with an additional PA or a PoC.
- Push for the creation of success stories with very successful services.

3. Conclusion

Throughout the duration of POP2 project more than 150 services were delivered by POP experts. The customers are systematically invited to fill in the survey related to their type of service. These services were provided for different types of structures: Academics, industrials, and SMEs (the target of 30 SMEs is reached).

The feedback from the customers was very helpful for us to adapt our strategy and fully satisfy our customers, and shows that the services provided by POP experts are of excellent quality. More than 94% of the customers are satisfied with POP services and judge them to have been conducted efficiently or very efficiently. The KPI of 90% customer satisfaction is therefore being exceeded and the Milestone **MS6** is satisfied. In addition to this, more than half of POP users wished to continue their collaboration with POP CoE by requesting a PoC, or by attending training and Workshops organised by POP experts. Some identified improvements were considered by POP experts, helping to maintain the good quality of POP services and supporting to both, retain existing customers and attract new ones, and thus promoting the POP brand.



Acronyms and Abbreviations

- CoE Centre of Excellence
- D deliverable
- DoA Description of Action (Annex 1 of the Grant Agreement)
- EC European Commission
- HPC High Performance Computing
- KPI Key Performance Indicator
- MS Milestone
- NAG Numerical Algorithms Group
- PA Performance Assessment
- PoC Proof of Concept
- POP Performance Optimisation and Productivity
- ROI Return On Investment
- WP Work Package

List of Figures

Figure 1 Performance Assessment Overall satisfaction	5
Figure 2 how users' needs are met	
Figure 3 Performance Assessment effectiveness statistic	8
Figure 4 Users' satisfaction with PA reports	
Figure 5 Performance Assessment data collection statistic	
Figure 6 Performance Assessment problems expected statistics	
Figure 7 Performance Assessment unexpected problems	11
Figure 8 Performance Assessment user's effort (in days)	12
Figure 9 Request for trainings	12
Figure 10 Proof of Concept request statistics	13
Figure 11 intention of users to modify their code	14
Figure 12 Expected date for code modification	14
Figure 13 Re-enrollment potential statistic	15
Figure 14 Readiness to pay for Performance Analysis services	15
Figure 15 Proof of Concept overall satisfaction	20
Figure 16 User effort for Proof of Concept	
Figure 17 Readiness to pay for Proof-of-Concept services	21
Figure 18 Readiness to pay for Proof-of-Concept services	
Figure 19 Code improvement declared by POP users	22
List of Tables	
Table 1, Partially satisfied user comments	
Table 2, Partly fulfill the expectation of POP User	
Table 3, Unsatisfied users with PA report	
Table 4, Reasons why users are not sure to pay for POP services	19



Table 6, Interview quotes for users who have experienced some difficulties	
with tools	.23
Table 7, Interview quotes for users reporting a slowness with the completion	n
of the service	. 24
Table 8, Interview quotes for users would have liked face-to-face meetings.	. 24
Table 9, Interview quotes for users have liked more indication in the report	. 24
Table 10, Interview quotes for users request GPU analysis tools	. 24
Table 11, Interview quotes for users report difficulties on the understanding	of
the code by the expert	. 25
Table 12, Interview quotes for users made remarks about the analysis tools	25
Table 13, Interview quotes for users indicate difficulties with the report	. 26
Table 14, Interview quotes for users reported internal resources issues	. 26
Table 15, Interview quotes for the code update and performance	
improvements	. 26

ⁱ POP Wiki Page, https://wiki2.pop-coe.eu/index.php5/WP3
ⁱⁱ POP Wiki Page, https://wiki2.pop-coe.eu/index.php5/WP3



D3.3 Final Customer Feedback Report Annex 1, Performance Assessment Survey Version 1

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Date: 11/04/2019 08:38:33



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2_AR_001

* 2. Application name

pySDC

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

*
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
* 5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
*6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
* 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of
person days/months)
5 person-days
* 8. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
*9. Overall, are you satisfied with this assessment?
Very satisfied Satisfied Partly satisfied Not Satisfied
Very satisfied Coatisfied Coatisfied Coatisfied
* 10. Are you happy for POP to publish the results of the Performance Assessment?
Note: You will be able to review any article before it is published.
Yes Yes, under certain conditions No
and a Manufal way to a interpretable in the activity of a superior of
* 11. Would you be interested in receiving any training? Output Output Description:
e res ino
Which kind of training does your team need?
Performance analysis, bottleneck detection
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be
refactored to address some of the issues found in the Performance Assessment)
Yes
No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been
proposed) ? © Yes
Not yet

No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated? Please enter a date in the following format (DD/MM/YYYYY)
01/05/2019
* 14. Do you have other applications for which a Performance Assessment would be useful? Yes No
How many and when do you plan to get them assessed?
1-2, May 2019
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes No
* 16. Would you recommend the POP service to your colleagues? Yes Possibly No
Thank you very much.

Contact

pop-surveys@teratec.eu

Contribution ID: 9b2f76c7-f814-48b7-b877-957a4855657e

Date: 10/02/2020 17:55:40



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR_nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR 002

*2. Application name

Origami

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
⋆ 5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
*6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
The, seedade That he local about possible prosition
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of
person days/months)
1/2 Day
*8. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
Any suggestions for improvement of the Performance Assessment?
Any suggestions for improvement of the Performance Assessment?
Any suggestions for improvement of the Performance Assessment? * 9. Overall, are you satisfied with this assessment?
Any suggestions for improvement of the Performance Assessment?
Any suggestions for improvement of the Performance Assessment? *9. Overall, are you satisfied with this assessment? Output Output
Any suggestions for improvement of the Performance Assessment? * 9. Overall, are you satisfied with this assessment? O Very satisfied Partly satisfied Not Satisfied * 10. Are you happy for POP to publish the results of the Performance Assessment?
*9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published.
Any suggestions for improvement of the Performance Assessment? * 9. Overall, are you satisfied with this assessment? O Very satisfied Partly satisfied Not Satisfied * 10. Are you happy for POP to publish the results of the Performance Assessment?
Any suggestions for improvement of the Performance Assessment? * 9. Overall, are you satisfied with this assessment? © Very satisfied © Satisfied © Partly satisfied © Not Satisfied * 10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. © Yes © Yes, under certain conditions © No
*9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published.
Any suggestions for improvement of the Performance Assessment? * 9. Overall, are you satisfied with this assessment? © Very satisfied © Satisfied © Partly satisfied © Not Satisfied * 10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. © Yes © Yes, under certain conditions © No
Any suggestions for improvement of the Performance Assessment? * 9. Overall, are you satisfied with this assessment? © Very satisfied © Satisfied © Partly satisfied © Not Satisfied * 10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. © Yes © Yes, under certain conditions © No
Any suggestions for improvement of the Performance Assessment? * 9. Overall, are you satisfied with this assessment? © Very satisfied © Satisfied © Partly satisfied © Not Satisfied * 10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. © Yes © Yes, under certain conditions © No
Any suggestions for improvement of the Performance Assessment? 9. Overall, are you satisfied with this assessment? Overy satisfied Satisfied Partly satisfied Not Satisfied * 10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No Under which conditions (in addition to the review of the article before publication)?
*9. Overall, are you satisfied with this assessment? • Very satisfied • Satisfied • Partly satisfied • Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. • Yes • Yes, under certain conditions • No Under which conditions (in addition to the review of the article before publication)? *11. Would you be interested in receiving any training?
Any suggestions for improvement of the Performance Assessment? 9. Overall, are you satisfied with this assessment? Overy satisfied Satisfied Partly satisfied Not Satisfied * 10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No Under which conditions (in addition to the review of the article before publication)?

* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be

refactored to address some of the issues found in the Performance Assessment)

2

Yes
No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed) ?
Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated? Please enter a date in the following format (DD/MM/YYYYY)
* 14. Do you have other applications for which a Performance Assessment would be useful? O Yes No
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes Not sure No Could you say why?
*16. Would you recommend the POP service to your colleagues? © Yes Possibly No
Could you say why?
Thank you very much.

Contact

pop-surveys@teratec.eu

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Date: 19/02/2020 16:59:42



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2_AR_003

*2. Application name

Tsunami-HySEA

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

* Very efficiently	
Rather efficiently (no major problem)	
Rather difficult (e.g. unreasonable delay, unexpected constraints,)	
Poorly conducted	
* 5. How did you find the Performance Assessment Report?	
Clear and easy to understand	
Somewhat difficult to understand	
Not at all clear	
* 6. Did the recommendations just confirm what you knew from a previous analys	is or by experience?
Yes	, ,
No, I didn't suspect some of the problems revealed by this assessment	
No, because I had no idea about possible problems	
- 1.0, 2004000 1.144 1.0 1604 4504 p. 600.00 p. 600.00	
*7. How much effort was required from you to complete this Performance Assess	ment? (rough estimate of
person days/months)	mont: (rough ostimate of
Just answering some technical questions about Tsunami-HySEA to the POP exp	ert
* 8. Did POP fulfil your expectations?	
Entirely Partly Not enough Not at all	
* 9. Overall, are you satisfied with this assessment?	
Very satisfied Satisfied Partly satisfied Not Satisfied	
o very eatiened o eatiened o raily eatiened o rect eatiened	
* 10. Are you happy for POP to publish the results of the Performance Assessme	nt?
Note: You will be able to review any article before it is published.	it:
Yes Yes, under certain conditions No	
* 11. Would you be interested in receiving any training?	
Yes No	
U TES UNO	
+ 10. Are you interested in a Dreef of Concept coming? (to better understand bou	wayr application can be
* 12. Are you interested in a Proof-of-Concept service? (to better understand how refactored to address some of the issues found in the Performance Assessmen	
Yes)
No, I have got enough information	
* 13. Do you have a plan to modify your code (taking into account the recommend	lations that have been
proposed) ?	
Yes	
Not yet	
No, we don't plan to modify our code	

When approximately, do you expect to have all needed modifications done and validated?

	The modifications have been already implemented
	Do you have other applications for which a Performance Assessment would be useful? Yes No w many and when do you plan to get them assessed?
	One more application will benefit from the analysis already performed. We plan to implement all the improvements in Landslide-HySEA code as soon as we conclude some current developments and have a stable version of the code.
ser	Based on this experience, would your organisation be prepared to pay for a Performance Assessment vice in the future? (After the end of the European Commission funded POP project.) Yes Not sure No Not you say why?
	We should have a code quite different from current codes in order to take full advantage of a Perfomance Assessment Service
	Would you recommend the POP service to your colleagues? Yes Possibly No
Th	ank you very much.

Contribution ID: d11e2aff-843c-40c3-9001-e16cb6584e57

Date: 03/04/2020 17:58:32



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report	Reference	Identifier
-------------	-----------	------------

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

none

*2. Application name

don't know

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

* @	Very efficiently
(Rather efficiently (no major problem)
0	Rather difficult (e.g. unreasonable delay, unexpected constraints,)
0	Poorly conducted
* 5. Ho	ow did you find the Performance Assessment Report?
0	Clear and easy to understand
0	Somewhat difficult to understand
(Not at all clear
Coul	d you say why?
	I never received a report. I got an email with some hints and two score-p output files. Further analysis output
	files were provided on the system.
* 6. Di	d the recommendations just confirm what you knew from a previous analysis or by experience?
	Yes
(0	No, I didn't suspect some of the problems revealed by this assessment
0	No, because I had no idea about possible problems
Whic	h problems were unexpected?
	Inefficient use of simultaneous threads
	Lack of (or inefficient) use of vectorization
	Inefficient use of memory
	Inefficient communications (MPI, I/O,)
	Poor scalability
	Load inbalance
V	Other (please specify)
Whic	h other problems?
	One routine was found to be responsible for superlinear speedup. I didn't even consider this routine as a possible candidate.
	possible calluldate.
	ow much effort was required from you to complete this Performance Assessment? (rough estimate of
perso	on days/months)
	about one day for preparation of setup examples
• Q D:	d POP fulfil your expectations?
* O. DI	d POP fulfil your expectations? Entirely Partly Not enough Not at all
	Faiting Faiting Not enough Winot at all
Δην	suggestions for improvement of the Performance Assessment?
/ \III V \	>aaaaooaono toi impiovomoni oi ino i onomianoo / 335331115111;

inefficient or unexpected behavior than having the performance analysis output files for self-evaluation.
*9. Overall, are you satisfied with this assessment?
 Very satisfied Satisfied Partly satisfied Not Satisfied
Could you say why?
I hoped for more feedback.
* 10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published.
Yes Yes, under certain conditions No
*11. Would you be interested in receiving any training? © Yes No
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Output Description:
No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed) ?
O Yes
Not yet
No, we don't plan to modify our code
* 14. Do you have other applications for which a Performance Assessment would be useful? O Yes
No
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes O Not sure O No
Could you say why?
Obdid you say why:
*16. Would you recommend the POP service to your colleagues?
○ Yes ○ Possibly ○ No

I'd rather preferred to have a report with routines, or code fragments named that are the cause of the

Please provide feedback proactively.

Could you say why?

Normal users in the earth system modelling community would not analyze performance analysis tool output files. They'd rather prefer a hints to specific parts of the code.

Thank you very much.

Contact

Contribution ID: b99d18a4-cd30-4b05-b8bf-8d30bb7539c9

Date: 13/06/2019 14:24:54



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2_AR_005

*2. Application name

SOMA

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

*	Very efficiently
0	Rather efficiently (no major problem)
0	Rather difficult (e.g. unreasonable delay, unexpected constraints,)
	Poorly conducted
* 5. Ho	v did you find the Performance Assessment Report?
0	Clear and easy to understand
0	Somewhat difficult to understand
0	Not at all clear
*6 Did	the recommendations just confirm what you knew from a previous analysis or by experience?
	Yes
(0)	No, I didn't suspect some of the problems revealed by this assessment
0	No, because I had no idea about possible problems
	No, because that no idea about possible problems
\//bioh	problems were unexpected?
VVIIICI	·
	Inefficient use of simultaneous threads
	Lack of (or inefficient) use of vectorization
	Inefficient use of memory
	Inefficient communications (MPI, I/O,)
√	Poor scalability
V	Load inbalance
	Other (please specify)
* 7. Hov	v much effort was required from you to complete this Performance Assessment? (rough estimate of
	w much effort was required from you to complete this Performance Assessment? (rough estimate of adays/months)
perso	n days/months)
perso	
perso	n days/months)
perso	n days/months)
perso	n days/months)
perso	n days/months) POP fulfil your expectations?
perso	n days/months) POP fulfil your expectations?
perso	POP fulfil your expectations? Entirely Partly Not enough Not at all
perso	POP fulfil your expectations? Entirely Partly Not enough Not at all
perso	POP fulfil your expectations? Entirely Partly Not enough Not at all
perso	POP fulfil your expectations? Entirely Partly Not enough Not at all
perso	POP fulfil your expectations? Entirely Partly Not enough Not at all
*8. Did	POP fulfil your expectations? Entirely Partly Not enough Not at all
*8. Did Any s	POP fulfil your expectations? Entirely Partly Not enough Not at all uggestions for improvement of the Performance Assessment?
*8. Did Any s	POP fulfil your expectations? Entirely Partly Not enough Not at all suggestions for improvement of the Performance Assessment?
*8. Did	POP fulfil your expectations? Entirely Partly Not enough Not at all aggestions for improvement of the Performance Assessment? Perall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied
* 8. Did Any s * 9. Ove	POP fulfil your expectations? Entirely Partly Not enough Not at all suggestions for improvement of the Performance Assessment?
* 8. Did Any s * 9. Ove * 10. Ar	POP fulfil your expectations? Entirely Partly Not enough Not at all aggestions for improvement of the Performance Assessment? Perall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied e you happy for POP to publish the results of the Performance Assessment?
* 8. Did Any s * 9. Ove * 10. Ar	POP fulfil your expectations? Entirely Partly Not enough Not at all aggestions for improvement of the Performance Assessment? Perall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied e you happy for POP to publish the results of the Performance Assessment? You will be able to review any article before it is published.

○ Yes ○ No
 * 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Yes No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)?
Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated? Please enter a date in the following format (DD/MM/YYYY)
* 14. Do you have other applications for which a Performance Assessment would be useful? O Yes No
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes Not sure No
 * 16. Would you recommend the POP service to your colleagues? ● Yes Possibly No
Thoulessessesses

Thank you very much.

Contact

Contribution ID: 2bb1ba71-6ce0-459b-b732-145f2dd4454a

Date: 13/06/2019 14:25:12



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2_AR_006

*2. Application name

FALL3D

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

*	Very efficiently
	Rather efficiently (no major problem)
	Rather difficult (e.g. unreasonable delay, unexpected constraints,)
	Poorly conducted
* 5.	How did you find the Performance Assessment Report?
	Clear and easy to understand
	Somewhat difficult to understand
	Not at all clear
* 6.	Did the recommendations just confirm what you knew from a previous analysis or by experience?
	Yes
	No, I didn't suspect some of the problems revealed by this assessment
	No, because I had no idea about possible problems
	Two, because that he lack about possible problems
* 7	How much effort was required from you to complete this Performance Assessment? (rough estimate of
	rson days/months)
ро	
	3 person days
* 8	Did POP fulfil your expectations?
0.	Entirely Partly Not enough Not at all
	Entirely of artiy of Not enough of Not at all
* O .	Overall, are you satisfied with this assessment?
^ 9. V	
	Very satisfiedSatisfiedPartly satisfiedNot Satisfied
	Are you happy for POP to publish the results of the Performance Assessment?
N	ote: You will be able to review any article before it is published.
	Yes Yes, under certain conditions No
* 11.	. Would you be interested in receiving any training?
	○ Yes ○ No
	. Are you interested in a Proof-of-Concept service? (to better understand how your application can be
ref	actored to address some of the issues found in the Performance Assessment)
	Yes
	No, I have got enough information
* 13.	Do you have a plan to modify your code (taking into account the recommendations that have been
pro	pposed) ?
	Yes
	Not yet
	No, we don't plan to modify our code

When approximately, do you expect to have all needed modifications done and validated?

	end 2020
* 14.	Do you have other applications for which a Performance Assessment would be useful?
	YesNo
ser	Based on this experience, would your organisation be prepared to pay for a Performance Assessment vice in the future? (After the end of the European Commission funded POP project.) Yes Not sure No
	Would you recommend the POP service to your colleagues? • Yes Possibly No

Thank you very much.

Contact

Contribution ID: 304d0f60-d565-4c9e-8130-16010693d8fa

Date: 31/03/2020 11:55:23



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2_AR_007

*2. Application name

cwltool

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

 Rather efficiently (no major problem) Rather difficult (e.g. unreasonable delay, unexpected constraints,) 	
Dethar difficult (o.g. upragganable delay upaynasted capatraints)	
Hatrier difficult (e.g. diffeasoriable delay, difexpected constraints,)	
Poorly conducted	
Could you say why?	
They were not prepared for Python programs	
*5. How did you find the Performance Assessment Report?	
Clear and easy to understand	
Somewhat difficult to understand	
Not at all clear	
Could you say why?	
Could you say wriy :	
No real insights. No actionable recommendations	
*6. Did the recommendations just confirm what you knew from a previous analysis or by experience?	
Yes	
No, I didn't suspect some of the problems revealed by this assessment	
No, because I had no idea about possible problems	
* 7. How was all offert was a surjust from your to complete this Douberrance Accessorate (very booking to	
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate	. 1
person days/months)	of
person days/months)	of
person days/months) several person days	of
several person days	of
several person days *8. Did POP fulfil your expectations?	of ——
several person days	of
*8. Did POP fulfil your expectations? © Entirely © Partly © Not enough ® Not at all	of ——
several person days *8. Did POP fulfil your expectations?	of
*8. Did POP fulfil your expectations? © Entirely © Partly © Not enough ® Not at all	of
*8. Did POP fulfil your expectations? © Entirely © Partly © Not enough © Not at all Any suggestions for improvement of the Performance Assessment?	of
*8. Did POP fulfil your expectations? © Entirely © Partly © Not enough © Not at all Any suggestions for improvement of the Performance Assessment?	of
*8. Did POP fulfil your expectations? © Entirely © Partly © Not enough © Not at all Any suggestions for improvement of the Performance Assessment?	of
*8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all Any suggestions for improvement of the Performance Assessment? Provide actionable insights. *9. Overall, are you satisfied with this assessment?	of
*8. Did POP fulfil your expectations? © Entirely © Partly © Not enough ® Not at all Any suggestions for improvement of the Performance Assessment? Provide actionable insights.	of
*8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all Any suggestions for improvement of the Performance Assessment? Provide actionable insights. *9. Overall, are you satisfied with this assessment?	of
several person days *8. Did POP fulfil your expectations? © Entirely © Partly © Not enough ® Not at all Any suggestions for improvement of the Performance Assessment? Provide actionable insights. *9. Overall, are you satisfied with this assessment? © Very satisfied © Satisfied © Partly satisfied ® Not Satisfied	of

* 10. Are you happy for POP to publish the results of the Performance Assessment?

Note: You will be able to review any article before it is published.

Yes Yes, under certain conditions No
* 11. Would you be interested in receiving any training? © Yes No
 * 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Yes No, I have got enough information
 * 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)? Yes Not yet No, we don't plan to modify our code
 * 14. Do you have other applications for which a Performance Assessment would be useful? Yes No
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes O Not sure O No Could you say why?
It did not provide us with any value.
it did not provide as with any value.
* 16. Would you recommend the POP service to your colleagues? Output Output Description:
Thank you very much.

Contribution ID: 21d984bb-8da4-44e4-82d2-e0834495f9da

Date: 18/10/2019 15:20:40



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2_AR_008

*2. Application name

GATK

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

^ • Ve	ery efficiently
© R	ather efficiently (no major problem)
© R	ather difficult (e.g. unreasonable delay, unexpected constraints,)
_	orly conducted
* 5. How d	d you find the Performance Assessment Report?
© C	ear and easy to understand
Section 1	mewhat difficult to understand
N N	ot at all clear
* 6. Did the	e recommendations just confirm what you knew from a previous analysis or by experience?
_	o, I didn't suspect some of the problems revealed by this assessment
_	
© N	o, because I had no idea about possible problems
Which pr	oblems were unexpected?
In	efficient use of simultaneous threads
La	ck of (or inefficient) use of vectorization
In	efficient use of memory
	efficient communications (MPI, I/O,)
	or scalability
	ad inbalance
	her (please specify)
7. How n	her (please specify) such effort was required from you to complete this Performance Assessment? (rough estimate of
7. How n	her (please specify)
* 7. How n	her (please specify) such effort was required from you to complete this Performance Assessment? (rough estimate of
* 7. How n	her (please specify) such effort was required from you to complete this Performance Assessment? (rough estimate of ays/months)
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* 7. How n person d 4 pe	her (please specify) nuch effort was required from you to complete this Performance Assessment? (rough estimate of ays/months) rsons-days OP fulfil your expectations?
* 7. How n person d 4 pe	her (please specify) nuch effort was required from you to complete this Performance Assessment? (rough estimate of ays/months) rsons-days
* 7. How n person d 4 pe	her (please specify) nuch effort was required from you to complete this Performance Assessment? (rough estimate of ays/months) rsons-days OP fulfil your expectations?
* 7. How n person d 4 pe	her (please specify) nuch effort was required from you to complete this Performance Assessment? (rough estimate of ays/months) rsons-days OP fulfil your expectations?
* 7. How no person do 4 person do 4 person do 4 person do 5 en 4 person do 5 en 5 e	her (please specify) nuch effort was required from you to complete this Performance Assessment? (rough estimate of ays/months) rsons-days OP fulfil your expectations? ntirely Partly Not enough Not at all
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* 7. How n person d 4 pe * 8. Did PC • En * 9. Overa	her (please specify) such effort was required from you to complete this Performance Assessment? (rough estimate of ays/months) rsons-days OP fulfil your expectations? strirely Partly Not enough Not at all I, are you satisfied with this assessment? ery satisfied Satisfied Partly satisfied Not Satisfied
* 7. How me person de service de la person de service de la person de la person de service de la person de la	her (please specify) such effort was required from you to complete this Performance Assessment? (rough estimate of ays/months) rsons-days OP fulfil your expectations? tirely Partly Not enough Not at all I, are you satisfied with this assessment? ery satisfied Partly satisfied Not Satisfied ou happy for POP to publish the results of the Performance Assessment?
* 7. How m person d 4 per * 8. Did PC • En * 9. Overa • Vo * 10. Are y Note: Yo	her (please specify) such effort was required from you to complete this Performance Assessment? (rough estimate of ays/months) rsons-days OP fulfil your expectations? tirely Partly Not enough Not at all I, are you satisfied with this assessment? ery satisfied Partly satisfied Not Satisfied ou happy for POP to publish the results of the Performance Assessment? will be able to review any article before it is published.
* 7. How m person d 4 per * 8. Did PC • En * 9. Overa • Vo * 10. Are y Note: Yo	her (please specify) such effort was required from you to complete this Performance Assessment? (rough estimate of ays/months) rsons-days OP fulfil your expectations? tirely Partly Not enough Not at all I, are you satisfied with this assessment? ery satisfied Partly satisfied Not Satisfied ou happy for POP to publish the results of the Performance Assessment?
* 7. How m person d 4 pe * 8. Did PC • En * 9. Overa • Vo * 10. Are y Note: Yo • Yo	her (please specify) nuch effort was required from you to complete this Performance Assessment? (rough estimate of ays/months) rsons-days OP fulfil your expectations? Itirely Partly Not enough Not at all I, are you satisfied with this assessment? Ary satisfied Satisfied Partly satisfied Not Satisfied Ou happy for POP to publish the results of the Performance Assessment? I will be able to review any article before it is published. Is Yes, under certain conditions No
* 7. How m person d 4 pe * 8. Did PC • Ei * 9. Overa • Vo * 10. Are y Note: Yo • Yo * 11. Would	ther (please specify) such effort was required from you to complete this Performance Assessment? (rough estimate of ays/months) rsons-days OP fulfil your expectations? Itirely Partly Not enough Not at all If, are you satisfied with this assessment? If you satisfied Partly satisfied Not Satisfied Ou happy for POP to publish the results of the Performance Assessment? It will be able to review any article before it is published. If you be interested in receiving any training?
* 7. How m person d 4 pe * 8. Did PC • Ei * 9. Overa • Vo * 10. Are y Note: Yo • Yo * 11. Would	her (please specify) nuch effort was required from you to complete this Performance Assessment? (rough estimate of ays/months) rsons-days OP fulfil your expectations? Itirely Partly Not enough Not at all I, are you satisfied with this assessment? Ary satisfied Satisfied Partly satisfied Not Satisfied Ou happy for POP to publish the results of the Performance Assessment? I will be able to review any article before it is published. Is Yes, under certain conditions No
* 7. How m person d 4 pe * 8. Did PC • Ei * 9. Overa • Vo * 10. Are y Note: Yo • Yo * 11. Would	ther (please specify) such effort was required from you to complete this Performance Assessment? (rough estimate of ays/months) rsons-days OP fulfil your expectations? Itirely Partly Not enough Not at all If, are you satisfied with this assessment? If you satisfied Partly satisfied Not Satisfied Ou happy for POP to publish the results of the Performance Assessment? It will be able to review any article before it is published. If you be interested in receiving any training?
* 7. How m person d 4 pe * 8. Did PC • Ei * 9. Overa • Vo * 10. Are y Note: Yo • Yo * 11. Woul	ther (please specify) such effort was required from you to complete this Performance Assessment? (rough estimate of ays/months) rsons-days OP fulfil your expectations? tirely Partly Not enough Not at all It, are you satisfied with this assessment? rry satisfied Satisfied Partly satisfied Not Satisfied ou happy for POP to publish the results of the Performance Assessment? will be able to review any article before it is published. The Set Set Set Set Set Set Set Set Set Se
* 7. How m person d 4 person d 5 person d 5 person d 6	ther (please specify) such effort was required from you to complete this Performance Assessment? (rough estimate of ays/months) rsons-days OP fulfil your expectations? Itirely Partly Not enough Not at all If, are you satisfied with this assessment? If you satisfied Partly satisfied Not Satisfied Ou happy for POP to publish the results of the Performance Assessment? It will be able to review any article before it is published. If you be interested in receiving any training?
* 7. How m person d 4 person d 5 person d 5 person d 6	ther (please specify) such effort was required from you to complete this Performance Assessment? (rough estimate of ays/months) rsons-days OP fulfil your expectations? Itirely Partly Not enough Not at all It, are you satisfied with this assessment? The satisfied Satisfied Partly satisfied Not Satisfied Ou happy for POP to publish the results of the Performance Assessment? It will be able to review any article before it is published. It is Yes, under certain conditions No It is No It is No It is No It is not condition in the performance Assessment? It is not condition in the performance Assessment?

No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed) ?
Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated? Please enter a date in the following format (DD/MM/YYYY)
30/11/2019
 * 14. Do you have other applications for which a Performance Assessment would be useful? Yes No
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) Yes Not sure No
Could you say why?
* 16. Would you recommend the POP service to your colleagues? Yes Possibly No
Thank you very much.

Contribution ID: 0784dca1-1b0c-4033-a8f2-cbbdb36d6e48

Date: 21/11/2019 00:00:49



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR_nnn (Indicated on the front page of the Performance Assessment Report)

POP2_AR_009

*2. Application name

specfem3D

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

•	very efficiently
0	Rather efficiently (no major problem)
	Rather difficult (e.g. unreasonable delay, unexpected constraints,)
	Poorly conducted
*5 Hov	w did you find the Performance Assessment Report?
_	·
	Clear and easy to understand
	Somewhat difficult to understand
	Not at all clear
	the recommendations just confirm what you knew from a previous analysis or by experience?
•	Yes
0	No, I didn't suspect some of the problems revealed by this assessment
0	No, because I had no idea about possible problems
* 7. Hov	w much effort was required from you to complete this Performance Assessment? (rough estimate of
	n days/months)
2	PM
* 8. Did	POP fulfil your expectations?
	Entirely Partly Not enough Not at all
0	Entirely & Fartiy & Not enough & Not at all
	erall, are you satisfied with this assessment?
•	Very satisfied Satisfied Partly satisfied Not Satisfied
* 10. Ar	e you happy for POP to publish the results of the Performance Assessment?
Note:	You will be able to review any article before it is published.
•	Yes Ves, under certain conditions No
* 11. W	ould you be interested in receiving any training?
	Yes No
. 10	re very interpreted in a Durant of Company compile 2 (to better underground become mulication can be
	re you interested in a Proof-of-Concept service? (to better understand how your application can be
	ored to address some of the issues found in the Performance Assessment)
•	Yes
0	No, I have got enough information
. 40 D.	
* 13. DC	you have a plan to modify your code (taking into account the recommendations that have been
propos	sed) ?
propos	sed) ? Yes
propos	sed) ?

When approximately, do you expect to have all needed modifications done and validated?

	01/04/2020
	Do you have other applications for which a Performance Assessment would be useful? Yes No
	Based on this experience, would your organisation be prepared to pay for a Performance Assessment vice in the future? (After the end of the European Commission funded POP project.) Yes Not sure No
Co	uld you say why?
* 16.	Would you recommend the POP service to your colleagues? • Yes • Possibly • No

Thank you very much.

Contact

Contribution ID: 8a22462c-c50b-4db2-8cc6-bb93035685e7

Date: 10/02/2020 15:46:29



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

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* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

*2. Application name

Salvus

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
* 5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
* 6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of
person days/months)
1 day
* 8. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
*9. Overall, are you satisfied with this assessment?
Very satisfied Satisfied Partly satisfied Not Satisfied
10. Are year home, for DOD to multiple the records of the Devicements.
* 10. Are you happy for POP to publish the results of the Performance Assessment?
Note: You will be able to review any article before it is published. O Yes O Yes, under certain conditions O No
Yes Yes, under certain conditions No
* 11. Would you be interested in receiving any training?
Yes No
Which kind of training does your team need?
Training w/ HPC analysis tools, such as those offered by POP.
Training w/ HPG analysis tools, such as those offered by PGP.
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be
refactored to address some of the issues found in the Performance Assessment)
Yes
No, I have got enough information
Two, Thave got chough information
± 12. Do you have a plan to modify your gode (taking into appoint the recommendations that have been
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been
proposed) ?
O Yes
Not yet

No, we don't plan to modify our code
 * 14. Do you have other applications for which a Performance Assessment would be useful? Yes No
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes O Not sure O No
About how much could you or would you be willing to pay for this service?
Taking as reference the sum your organisation is used to paying for other expert services
Tough question, but given the time / effort involved certainly in the several thousands.
*16. Would you recommend the POP service to your colleagues? © Yes © Possibly © No
Thank you very much.

Contribution ID: 8a22462c-c50b-4db2-8cc6-bb93035685e7

Date: 10/02/2020 15:46:29



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2_AR_013

* 2. Application name

Salvus

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
* 5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
* 6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of
person days/months)
1 day
* 8. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
*9. Overall, are you satisfied with this assessment?
Very satisfied Satisfied Partly satisfied Not Satisfied
10. Are year home, for DOD to multiple the records of the Devicements.
* 10. Are you happy for POP to publish the results of the Performance Assessment?
Note: You will be able to review any article before it is published. O Yes O Yes, under certain conditions O No
Yes Yes, under certain conditions No
* 11. Would you be interested in receiving any training?
Yes No
Which kind of training does your team need?
Training w/ HPC analysis tools, such as those offered by POP.
Training w/ HPG analysis tools, such as those offered by PGP.
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be
refactored to address some of the issues found in the Performance Assessment)
Yes
No, I have got enough information
Two, Thave got chough information
± 12. Do you have a plan to modify your gode (taking into appoint the recommendations that have been
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been
proposed) ?
O Yes
Not yet

No, we don't plan to modify our code
 * 14. Do you have other applications for which a Performance Assessment would be useful? Yes No
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes O Not sure O No
About how much could you or would you be willing to pay for this service?
Taking as reference the sum your organisation is used to paying for other expert services
Tough question, but given the time / effort involved certainly in the several thousands.
*16. Would you recommend the POP service to your colleagues? © Yes © Possibly © No
Thank you very much.

Contribution ID: 4694fa9f-c56b-4638-816e-384708499f83

Date: 04/10/2019 12:57:42



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2_AR_014

*2. Application name

DeaLAMMPS

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

,	Very efficiently
(Rather efficiently (no major problem)
(Rather difficult (e.g. unreasonable delay, unexpected constraints,)
(Poorly conducted
* 5. H	ow did you find the Performance Assessment Report?
	Clear and easy to understand
(·
(Not at all clear
	That at all Gloai
*6 D	d the recommendations just confirm what you knew from a previous analysis or by experience?
	Yes
	No, I didn't suspect some of the problems revealed by this assessment
6	No, because I had no idea about possible problems
	No, because mad no idea about possible problems
\A/bi.	h probleme were unevenented?
	h problems were unexpected?
[Inefficient use of simultaneous threads
[Lack of (or inefficient) use of vectorization
Į.	Inefficient use of memory
	Inefficient communications (MPI, I/O,)
	Poor scalability
	Load inbalance
	Other (please specify)
	Carlot (piedes openly)
	Carlor (product opensity)
* 7. H	ow much effort was required from you to complete this Performance Assessment? (rough estimate of
	ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months)
	ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) < 1 person month (and mainly to do with issues that were entirely our fault, such as problems with the code
	ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months)
pers	ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) < 1 person month (and mainly to do with issues that were entirely our fault, such as problems with the code we sent to POP)
pers	ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) < 1 person month (and mainly to do with issues that were entirely our fault, such as problems with the code
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pers	ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) < 1 person month (and mainly to do with issues that were entirely our fault, such as problems with the code we sent to POP) d POP fulfil your expectations?
pers	ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) < 1 person month (and mainly to do with issues that were entirely our fault, such as problems with the code we sent to POP) d POP fulfil your expectations?
*8. D	ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) < 1 person month (and mainly to do with issues that were entirely our fault, such as problems with the code we sent to POP) d POP fulfil your expectations? Entirely Partly Not enough Not at all
*8. D	ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) < 1 person month (and mainly to do with issues that were entirely our fault, such as problems with the code we sent to POP) d POP fulfil your expectations? Entirely Partly Not enough Not at all verall, are you satisfied with this assessment?
*8. D	ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) < 1 person month (and mainly to do with issues that were entirely our fault, such as problems with the code we sent to POP) d POP fulfil your expectations? Entirely Partly Not enough Not at all verall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied
*8. D	ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) < 1 person month (and mainly to do with issues that were entirely our fault, such as problems with the code we sent to POP) d POP fulfil your expectations? Entirely Partly Not enough Not at all verall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied Not Satisfied Are you happy for POP to publish the results of the Performance Assessment?
*8. D *9. O	ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) < 1 person month (and mainly to do with issues that were entirely our fault, such as problems with the code we sent to POP) d POP fulfil your expectations? Entirely Partly Not enough Not at all verall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied re you happy for POP to publish the results of the Performance Assessment? Exercise You will be able to review any article before it is published.
*8. D *9. O	ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) < 1 person month (and mainly to do with issues that were entirely our fault, such as problems with the code we sent to POP) d POP fulfil your expectations? Entirely Partly Not enough Not at all verall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied Not Satisfied Are you happy for POP to publish the results of the Performance Assessment?
*8. D	ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) < 1 person month (and mainly to do with issues that were entirely our fault, such as problems with the code we sent to POP) d POP fulfil your expectations? Entirely Partly Not enough Not at all verall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied are you happy for POP to publish the results of the Performance Assessment? Every you will be able to review any article before it is published. Yes Yes, under certain conditions No
*8. D *9. O *10. / Not	ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) < 1 person month (and mainly to do with issues that were entirely our fault, such as problems with the code we sent to POP) d POP fulfil your expectations? Entirely Partly Not enough Not at all verall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied ire you happy for POP to publish the results of the Performance Assessment? ex You will be able to review any article before it is published. Yes Yes, under certain conditions No Would you be interested in receiving any training?
*8. D *9. O *10. / Not	ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) < 1 person month (and mainly to do with issues that were entirely our fault, such as problems with the code we sent to POP) d POP fulfil your expectations? Entirely Partly Not enough Not at all verall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied are you happy for POP to publish the results of the Performance Assessment? Every you will be able to review any article before it is published. Yes Yes, under certain conditions No
* 8. D * 9. O * 10. // Not	ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) < 1 person month (and mainly to do with issues that were entirely our fault, such as problems with the code we sent to POP) d POP fulfil your expectations? Entirely Partly Not enough Not at all verall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied Partly satisfied Not Satisfied Are you happy for POP to publish the results of the Performance Assessment? You will be able to review any article before it is published. Yes Yes, under certain conditions No Vould you be interested in receiving any training? Yes No
* 8. D * 9. O * 10. // Not	ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) < 1 person month (and mainly to do with issues that were entirely our fault, such as problems with the code we sent to POP) d POP fulfil your expectations? Entirely Partly Not enough Not at all verall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied ire you happy for POP to publish the results of the Performance Assessment? ex You will be able to review any article before it is published. Yes Yes, under certain conditions No Would you be interested in receiving any training?

* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment)
Yes
No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed) ?
YesNot yet
No, we don't plan to modify our code
* 14. Do you have other applications for which a Performance Assessment would be useful? O Yes No
*15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) Output Output Description:
About how much could you or would you be willing to pay for this service?
Taking as reference the sum your organisation is used to paying for other expert services
A couple of thousand Euros, maybe?
* 16. Would you recommend the POP service to your colleagues? Output Output Description:
Thank you very much.

Contribution ID: d5c23729-2b6f-42bd-965e-01af4d90fa1d

Date: 07/04/2020 17:17:20



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

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* 1. Report Reference Identifier

POP2 AR_nnn (Indicated on the front page of the Performance Assessment Report)

POP_AR_015

*2. Application name

MONARCH

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

* O Very efficiently
Rather efficiently (no major problem)
 Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
+ E. Llow did you find the Deviewmence Acceptament Deposits
*5. How did you find the Performance Assessment Report?
Clear and easy to understand Somewhat difficult to understand
Not at all clear
Not at all clear
*6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months)
0.5PM
*8. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
*9. Overall, are you satisfied with this assessment?
Very satisfied Satisfied Partly satisfied Not Satisfied
* 10. Are you happy for POP to publish the results of the Performance Assessment?
Note: You will be able to review any article before it is published.
Tes Tes, under certain conditions Tho
* 11. Would you be interested in receiving any training?
Yes No
163 0 110
Which kind of training does your team need?
Training on performance tools to apply in the MONARCH model
Training on penormance tools to apply in the MONANCH model
. 10. Are you interested in a Breaf of Company and 20 /talls the many location in the control of
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment)
Yes Yes
No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been
proposed) ?
Yes
Not yet

No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated? Please enter a date in the following format (DD/MM/YYYYY)
* 14. Do you have other applications for which a Performance Assessment would be useful? O Yes No
How many and when do you plan to get them assessed?
*15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes Not sure No
Could you say why?
Not sure if our organisation can pay for these services.
*16. Would you recommend the POP service to your colleagues?
Thank you very much.

Contribution ID: 70c2eb04-5019-4a27-96f2-aeda34f1cc3c

Date: 13/02/2020 12:07:50



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2_AR_016

*2. Application name

Alya-combustion

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

	very efficiently
0	Rather efficiently (no major problem)
	Rather difficult (e.g. unreasonable delay, unexpected constraints,)
0	Poorly conducted
*5 Hov	w did you find the Performance Assessment Report?
_	
	Clear and easy to understand
	Somewhat difficult to understand
	Not at all clear
	the recommendations just confirm what you knew from a previous analysis or by experience?
•	Yes
	No, I didn't suspect some of the problems revealed by this assessment
0	No, because I had no idea about possible problems
* 7. Hov	w much effort was required from you to complete this Performance Assessment? (rough estimate of
	n days/months)
5	persons/day
* 8. Did	POP fulfil your expectations?
	Entirely Partly Not enough Not at all
	Entiroly of Farty of Not onough
* O. O.	and the very patiefied with this accompany.
	erall, are you satisfied with this assessment?
•	Very satisfied Satisfied Partly satisfied Not Satisfied
* 10. Ar	e you happy for POP to publish the results of the Performance Assessment?
	You will be able to review any article before it is published.
•	Yes Ves, under certain conditions No
* 11. Wo	ould you be interested in receiving any training?
0	Yes No
*12 Δr	e you interested in a Proof-of-Concept service? (to better understand how your application can be
	ored to address some of the issues found in the Performance Assessment)
•	Yes
0	No, I have got enough information
* 13. Do	you have a plan to modify your code (taking into account the recommendations that have been
propos	sed) ?
•	Yes
	Not yet
	No, we don't plan to modify our code

When approximately, do you expect to have all needed modifications done and validated?

	30/04/2020
	Do you have other applications for which a Performance Assessment would be useful? Yes No
Hov	w many and when do you plan to get them assessed?
	At least one, as soon as we finalize this part
ser	Based on this experience, would your organisation be prepared to pay for a Performance Assessment vice in the future? (After the end of the European Commission funded POP project.) Yes Not sure No
Col	uld you say why?
	Funding available
	Would you recommend the POP service to your colleagues? Possibly No

Thank you very much.

Contact

Contribution ID: 19b700ea-14dd-480a-a0e7-91447e547218

Date: 25/11/2019 10:47:08



POP Performance Assessment Evaluation

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* 1. Report Reference Identifier

POP2 AR_nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR 017

*2. Application name

SOMA

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

	Very efficiently
0	Rather efficiently (no major problem)
0	Rather difficult (e.g. unreasonable delay, unexpected constraints,)
0	Poorly conducted
*5 Hov	v did you find the Performance Assessment Report?
_	Clear and easy to understand
0	Somewhat difficult to understand
	Not at all clear
. C. D:-I	
	the recommendations just confirm what you knew from a previous analysis or by experience?
_	Yes
•	No, I didn't suspect some of the problems revealed by this assessment
0	No, because I had no idea about possible problems
Which	problems were unexpected?
	Inefficient use of simultaneous threads
	Lack of (or inefficient) use of vectorization
	Inefficient use of memory
V	Inefficient communications (MPI, I/O,)
	Poor scalability
	Load inbalance
	Other (please specify)
	Carrot (produce opening)
	w much effort was required from you to complete this Performance Assessment? (rough estimate of
persor	w much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months)
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persor 0	w much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months)
persor 0	w much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) 2 days POP fulfil your expectations?
persor 0 *8. Did	w much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) 2 days POP fulfil your expectations?
persor 0 * 8. Did * 9. Ove	w much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) 2 days POP fulfil your expectations? Entirely Partly Not enough Not at all erall, are you satisfied with this assessment?
persor 0 * 8. Did * 9. Ove	w much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) 2 days POP fulfil your expectations? Entirely Partly Not enough Not at all
persor 0 * 8. Did • 9. Ove	w much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) 2 days POP fulfil your expectations? Entirely Partly Not enough Not at all erall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied
* 8. Did * 9. Ove * 10. Are	w much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) 2 days POP fulfil your expectations? Entirely Partly Not enough Not at all erall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied e you happy for POP to publish the results of the Performance Assessment?
* 8. Did * 9. Ove * 10. Are Note:	w much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) 2 days POP fulfil your expectations? Entirely Partly Not enough Not at all erall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied e you happy for POP to publish the results of the Performance Assessment? You will be able to review any article before it is published.
* 8. Did * 9. Ove * 10. Are Note:	w much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) 2 days POP fulfil your expectations? Entirely Partly Not enough Not at all erall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied e you happy for POP to publish the results of the Performance Assessment?
* 8. Did * 9. Ove * 10. Are Note:	w much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) 2 days POP fulfil your expectations? Entirely Partly Not enough Not at all erall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied e you happy for POP to publish the results of the Performance Assessment? You will be able to review any article before it is published. Yes Yes, under certain conditions No
* 8. Did * 9. Ove * 10. Are Note: * 11. We	w much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) 2 days POP fulfil your expectations? Entirely Partly Not enough Not at all erall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied e you happy for POP to publish the results of the Performance Assessment? You will be able to review any article before it is published. Yes Yes, under certain conditions No pulld you be interested in receiving any training?
* 8. Did * 9. Ove * 10. Are Note: * 11. We	w much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) 2 days POP fulfil your expectations? Entirely Partly Not enough Not at all erall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied e you happy for POP to publish the results of the Performance Assessment? You will be able to review any article before it is published. Yes Yes, under certain conditions No
* 8. Did * 9. Ove * 10. Are Note: * 11. We	w much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) 2 days POP fulfil your expectations? Entirely Partly Not enough Not at all erall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied e you happy for POP to publish the results of the Performance Assessment? You will be able to review any article before it is published. Yes Yes, under certain conditions No pulld you be interested in receiving any training?
* 8. Did * 9. Ove * 10. Are Note: * 11. We	w much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) 2 days POP fulfil your expectations? Entirely Partly Not enough Not at all erall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied e you happy for POP to publish the results of the Performance Assessment? You will be able to review any article before it is published. Yes Yes, under certain conditions No pulld you be interested in receiving any training?
* 9. Ove * 10. Are Note: * 12. Are	w much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) 2 days POP fulfil your expectations? Entirely Partly Not enough Not at all vrall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied e you happy for POP to publish the results of the Performance Assessment? You will be able to review any article before it is published. Yes Yes, under certain conditions No pulld you be interested in receiving any training? Yes No
* 9. Ove * 10. Arr Note: * 11. We * 12. Arr refactor	w much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) 2 days POP fulfil your expectations? Entirely Partly Not enough Not at all vrall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied e you happy for POP to publish the results of the Performance Assessment? You will be able to review any article before it is published. Yes Yes, under certain conditions No pulld you be interested in receiving any training? Yes No e you interested in a Proof-of-Concept service? (to better understand how your application can be

* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)?
Yes
Not yet
No, we don't plan to modify our code
*14. Do you have other applications for which a Performance Assessment would be useful?
O Yes
No
 * 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) ○ Yes ○ Not sure ○ No
Could you say why?
Own expertise in house
*16. Would you recommend the POP service to your colleagues? Yes Possibly No
Thank you very much.

pop-surveys@teratec.eu

No, I have got enough information

Contribution ID: ae2f24cd-d1da-4bb7-8a8e-88562726144a

Date: 09/09/2019 15:00:18



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

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* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2_AR_018

*2. Application name

GALES

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
 - 4. How was this Performance Assessment carried out?

	Very efficiently
	Rather efficiently (no major problem)
	Rather difficult (e.g. unreasonable delay, unexpected constraints,)
	Poorly conducted
*5 L	ow did you find the Performance Assessment Report?
	Clear and easy to understand
	_
	Somewhat difficult to understand
	Not at all clear
0.5	
	id the recommendations just confirm what you knew from a previous analysis or by experience?
) Yes
	No, I didn't suspect some of the problems revealed by this assessment
	No, because I had no idea about possible problems
Whi	ch problems were unexpected?
	Inefficient use of simultaneous threads
	Lack of (or inefficient) use of vectorization
	☐ Inefficient use of memory
	✓ Inefficient communications (MPI, I/O,)
	✓ Poor scalability
	Load inbalance
	Ulther (hiease shecity)
	Other (please specify)
,	= Cirici (picase specify)
	ow much effort was required from you to complete this Performance Assessment? (rough estimate of
	ow much effort was required from you to complete this Performance Assessment? (rough estimate of son days/months)
	ow much effort was required from you to complete this Performance Assessment? (rough estimate of
	ow much effort was required from you to complete this Performance Assessment? (rough estimate of son days/months)
pers	ow much effort was required from you to complete this Performance Assessment? (rough estimate of son days/months)
pers (ow much effort was required from you to complete this Performance Assessment? (rough estimate of son days/months) 60 days
pers (ow much effort was required from you to complete this Performance Assessment? (rough estimate of son days/months) 60 days id POP fulfil your expectations?
pers (ow much effort was required from you to complete this Performance Assessment? (rough estimate of son days/months) 60 days id POP fulfil your expectations? Entirely Partly Not enough Not at all
* 8. C	ow much effort was required from you to complete this Performance Assessment? (rough estimate of son days/months) 60 days id POP fulfil your expectations? Entirely Partly Not enough Not at all everall, are you satisfied with this assessment?
* 8. C	ow much effort was required from you to complete this Performance Assessment? (rough estimate of son days/months) 60 days id POP fulfil your expectations? Entirely Partly Not enough Not at all
* 8. E	ow much effort was required from you to complete this Performance Assessment? (rough estimate of son days/months) 60 days id POP fulfil your expectations? Entirely Partly Not enough Not at all everall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied
* 8. E	ow much effort was required from you to complete this Performance Assessment? (rough estimate of son days/months) 60 days id POP fulfil your expectations? Entirely Partly Not enough Not at all Idverall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied Are you happy for POP to publish the results of the Performance Assessment?
* 8. E	ow much effort was required from you to complete this Performance Assessment? (rough estimate of son days/months) 60 days id POP fulfil your expectations? Entirely Partly Not enough Not at all Iverall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied Are you happy for POP to publish the results of the Performance Assessment? te: You will be able to review any article before it is published.
* 8. E	ow much effort was required from you to complete this Performance Assessment? (rough estimate of son days/months) 60 days id POP fulfil your expectations? Entirely Partly Not enough Not at all Idverall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied Are you happy for POP to publish the results of the Performance Assessment?
* 8. E	ow much effort was required from you to complete this Performance Assessment? (rough estimate of son days/months) 60 days id POP fulfil your expectations? Entirely Partly Not enough Not at all overall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied Are you happy for POP to publish the results of the Performance Assessment? te: You will be able to review any article before it is published. Yes Yes, under certain conditions No
* 8. E	ow much effort was required from you to complete this Performance Assessment? (rough estimate of son days/months) 60 days id POP fulfil your expectations? Entirely Partly Not enough Not at all Iverall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied Are you happy for POP to publish the results of the Performance Assessment? te: You will be able to review any article before it is published.
* 8. E	ow much effort was required from you to complete this Performance Assessment? (rough estimate of son days/months) 60 days id POP fulfil your expectations? Entirely Partly Not enough Not at all overall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied Are you happy for POP to publish the results of the Performance Assessment? te: You will be able to review any article before it is published. Yes Yes, under certain conditions No
* 8. E	ow much effort was required from you to complete this Performance Assessment? (rough estimate of son days/months) 60 days id POP fulfil your expectations? © Entirely © Partly © Not enough © Not at all overall, are you satisfied with this assessment? © Very satisfied © Satisfied © Partly satisfied © Not Satisfied Are you happy for POP to publish the results of the Performance Assessment? te: You will be able to review any article before it is published. © Yes © Yes, under certain conditions © No Would you be interested in receiving any training?
* 8. E	ow much effort was required from you to complete this Performance Assessment? (rough estimate of son days/months) 60 days id POP fulfil your expectations? © Entirely © Partly © Not enough © Not at all overall, are you satisfied with this assessment? © Very satisfied © Satisfied © Partly satisfied © Not Satisfied Are you happy for POP to publish the results of the Performance Assessment? te: You will be able to review any article before it is published. © Yes © Yes, under certain conditions © No Would you be interested in receiving any training?
* 8. E	ow much effort was required from you to complete this Performance Assessment? (rough estimate of son days/months) 60 days id POP fulfil your expectations? Entirely Partly Not enough Not at all Inverall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied Are you happy for POP to publish the results of the Performance Assessment? Ite: You will be able to review any article before it is published. Yes Yes, under certain conditions No Would you be interested in receiving any training? Yes No

* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment)
Yes
No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)?
Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated? Please enter a date in the following format (DD/MM/YYYY)
15/12/2019
 Yes No *15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) Yes Not sure No About how much could you or would you be willing to pay for this service? Taking as reference the sum your organisation is used to paying for other expert services
*16. Would you recommend the POP service to your colleagues? O Yes Possibly No
Thank you very much.
Contact

Contribution ID: 562ebbba-1004-4ded-8f3c-02544023902f

Date: 10/06/2020 15:53:15



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR_nnn (Indicated on the front page of the Performance Assessment Report)

POP2_AR_019

*2. Application name

PARODY PDAF

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

	very efficiently
•	Rather efficiently (no major problem)
	Rather difficult (e.g. unreasonable delay, unexpected constraints,)
0	Poorly conducted
* E. Hov	y did you find the Devfermence Assessment Depart?
_	did you find the Performance Assessment Report?
_	Clear and easy to understand
_	Somewhat difficult to understand
0	Not at all clear
* 6. Did	the recommendations just confirm what you knew from a previous analysis or by experience?
•	Yes
	No, I didn't suspect some of the problems revealed by this assessment
0	No, because I had no idea about possible problems
* 7 How	much effort was required from you to complete this Performance Assessment? (rough estimate of
	days/months)
person	r days/montris/
5	person days
* 8. Did	POP fulfil your expectations?
•	Entirely Partly Not enough Not at all
*9 Ove	rall, are you satisfied with this assessment?
	Very satisfied Satisfied Partly satisfied Not Satisfied
•	very satisfied Satisfied Party satisfied Not Satisfied
	e you happy for POP to publish the results of the Performance Assessment?
	You will be able to review any article before it is published.
0	Yes Ves, under certain conditions No
* 11. Wo	ould you be interested in receiving any training?
	Yes No
40.4	
	e you interested in a Proof-of-Concept service? (to better understand how your application can be
	red to address some of the issues found in the Performance Assessment)
•	Yes
	No, I have got enough information
* 13 Do	you have a plan to modify your code (taking into account the recommendations that have been
propos	
	·
_	Yes
_	Not yet
0	No, we don't plan to modify our code

When approximately, do you expect to have all needed modifications done and validated?

	Already done
	Do you have other applications for which a Performance Assessment would be useful? Yes No
ser	Based on this experience, would your organisation be prepared to pay for a Performance Assessment vice in the future? (After the end of the European Commission funded POP project.) Yes Not sure No
Cou	uld you say why?
	lack of funds
	Would you recommend the POP service to your colleagues? Yes Possibly No

Thank you very much.

Contact

Contribution ID: 0444335b-99ce-4337-b39d-9afb0b12c7cd

Date: 06/05/2020 08:26:27



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2_AR_020

* 2. Application name

Blender Cycles

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

very effic	Johny
Rather e	fficiently (no major problem)
	ifficult (e.g. unreasonable delay, unexpected constraints,)
Poorly co	
O 1 doily di	madeled
* 5. How did you	find the Performance Assessment Report?
Olear an	d easy to understand
Somewh	at difficult to understand
Not at al	clear
+6 Did the rece	mmendations just confirm what you knew from a previous analysis or by experience?
	Timendations just commit what you knew from a previous analysis of by experience:
O Yes	
_	n't suspect some of the problems revealed by this assessment
No, beca	use I had no idea about possible problems
Which problem	s were unexpected?
	it use of simultaneous threads
	or inefficient) use of vectorization
_	at use of memory
Inefficier	t communications (MPI, I/O,)
Poor sca	lability
Load inb	alance
Other (n	
	ease specify)
E other (p	ease specify)
*7. How much e	ffort was required from you to complete this Performance Assessment? (rough estimate of
	ffort was required from you to complete this Performance Assessment? (rough estimate of
* 7. How much e person days/m	ffort was required from you to complete this Performance Assessment? (rough estimate of
*7. How much e	ffort was required from you to complete this Performance Assessment? (rough estimate of
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* 7. How much e person days/m 10 days * 8. Did POP fulf	ffort was required from you to complete this Performance Assessment? (rough estimate of onths)
* 7. How much e person days/m 10 days * 8. Did POP fulf © Entirely	ffort was required from you to complete this Performance Assessment? (rough estimate of onths) il your expectations? Partly Not enough Not at all
* 7. How much e person days/m 10 days * 8. Did POP fulf • Entirely * 9. Overall, are	ffort was required from you to complete this Performance Assessment? (rough estimate of onths) il your expectations? Partly Not enough Not at all you satisfied with this assessment?
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* 7. How much e person days/m 10 days * 8. Did POP fulf Entirely * 9. Overall, are Very sati * 10. Are you ha Note: You will be Yes * 11. Would you	ffort was required from you to complete this Performance Assessment? (rough estimate of onths) ill your expectations? Partly Not enough Not at all you satisfied with this assessment? sfied Satisfied Partly satisfied Not Satisfied opy for POP to publish the results of the Performance Assessment? able to review any article before it is published. Yes, under certain conditions No be interested in receiving any training?
* 7. How much e person days/m 10 days * 8. Did POP fulf Entirely * 9. Overall, are Very sati * 10. Are you han Note: You will be Yes	ffort was required from you to complete this Performance Assessment? (rough estimate of onths) ill your expectations? Partly Not enough Not at all you satisfied with this assessment? sfied Satisfied Partly satisfied Not Satisfied opy for POP to publish the results of the Performance Assessment? able to review any article before it is published. Yes, under certain conditions No be interested in receiving any training?
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No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)?
Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated?
Please enter a date in the following format (DD/MM/YYYY)
 * 14. Do you have other applications for which a Performance Assessment would be useful? Yes No
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes O Not sure O No
Could you say why?
* 16. Would you recommend the POP service to your colleagues? Yes Possibly No
Thank you very much.

Contribution ID: eca6896d-bfbf-42b0-94e0-ebadda2b8396

Date: 16/06/2020 17:32:33



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR 021

* 2. Application name

CalculiX (Finite VOLUME Computational Fluid Dynamics code)

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

* 4. How was this Performance Assessment carried out?
Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
*5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
*6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
O Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
Which problems were unexpected?
Inefficient use of simultaneous threads
Lack of (or inefficient) use of vectorization
Inefficient use of memory
☐ Inefficient communications (MPI, I/O,)
Poor scalability
Load inbalance
Other (please specify)
* 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of
* 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months)
* 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of
* 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 1 person day
 * 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 1 person day * 8. Did POP fulfil your expectations?
* 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 1 person day
* 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 1 person day * 8. Did POP fulfil your expectations? © Entirely © Partly © Not enough © Not at all
 * 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 1 person day * 8. Did POP fulfil your expectations?
* 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 1 person day * 8. Did POP fulfil your expectations? © Entirely © Partly © Not enough © Not at all
* 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 1 person day * 8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all Any suggestions for improvement of the Performance Assessment?
* 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 1 person day * 8. Did POP fulfil your expectations? © Entirely © Partly © Not enough © Not at all Any suggestions for improvement of the Performance Assessment? Occasionally the results were not good when using a specific number of cores. This is due to the way the
 * 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 1 person day * 8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all Any suggestions for improvement of the Performance Assessment? Occasionally the results were not good when using a specific number of cores. This is due to the way the equation solver was parallellized. No solution was found how to get a better way of parallellizing the solution
 *7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 1 person day *8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all Any suggestions for improvement of the Performance Assessment? Occasionally the results were not good when using a specific number of cores. This is due to the way the equation solver was parallellized. No solution was found how to get a better way of parallellizing the solution of the linear equations
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 1 person day *8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all Any suggestions for improvement of the Performance Assessment? Occasionally the results were not good when using a specific number of cores. This is due to the way the equation solver was parallellized. No solution was found how to get a better way of parallellizing the solution of the linear equations *9. Overall, are you satisfied with this assessment?
 *7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 1 person day *8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all Any suggestions for improvement of the Performance Assessment? Occasionally the results were not good when using a specific number of cores. This is due to the way the equation solver was parallellized. No solution was found how to get a better way of parallellizing the solution of the linear equations
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 1 person day *8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all Any suggestions for improvement of the Performance Assessment? Occasionally the results were not good when using a specific number of cores. This is due to the way the equation solver was parallellized. No solution was found how to get a better way of parallellizing the solution of the linear equations *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Not Satisfied Not Satisfied
 *7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 1 person day *8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all Any suggestions for improvement of the Performance Assessment? Occasionally the results were not good when using a specific number of cores. This is due to the way the equation solver was parallellized. No solution was found how to get a better way of parallellizing the solution of the linear equations *9. Overall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment?
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 1 person day *8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all Any suggestions for improvement of the Performance Assessment? Occasionally the results were not good when using a specific number of cores. This is due to the way the equation solver was parallellized. No solution was found how to get a better way of parallellizing the solution of the linear equations *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Not Satisfied Not Satisfied

○ Yes ● No
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Yes
No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)?
YesNot yet
No, we don't plan to modify our code
 * 14. Do you have other applications for which a Performance Assessment would be useful? Yes No
How many and when do you plan to get them assessed?
one other: CalculiX (Finite ELEMENT Computational Fluid Dynamics code); no time schedule available yet.
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes O Not sure O No
Could you say why?
CalculiX is an Open Source code without financial resources
* 16. Would you recommend the POP service to your colleagues? Yes
Thank you very much.
Contact

*11. Would you be interested in receiving any training?

Contribution ID: 86d0c103-d934-4957-b85d-bbb393d7d652

Date: 08/10/2019 17:31:56



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2_AR_022

*2. Application name

SeisSol

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
* 5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
* 6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of
person days/months)
person days/montris)
<1 person week
*8. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
*9. Overall, are you satisfied with this assessment?
Very satisfied Satisfied Partly satisfied Not Satisfied
Toty satisfied a satisfied a traity satisfied a troit satisfied
A A A A A A A A A A A A A A A A A A A
* 10. Are you happy for POP to publish the results of the Performance Assessment?
Note: You will be able to review any article before it is published.
Yes Yes, under certain conditions No
*11. Would you be interested in receiving any training?
Yes No
Which kind of training does your team need?
william of training does your team need:
Potentially profiling tools (e.g. score-p), profiling cuda
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be
refactored to address some of the issues found in the Performance Assessment)
O Yes
No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been
proposed) ?
© Yes
Not yet

No, we don't plan to modify our code
 * 14. Do you have other applications for which a Performance Assessment would be useful? Yes No
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes O Not sure O No
Could you say why?
Profiling didn't show any unknown issue (mostly because profiling tools couldn't handle parallelization strategy of MPI+OpenMP+pthreads).
* 16. Would you recommend the POP service to your colleagues? © Yes Possibly No
Could you say why?
POP service was fast but not necessarily suited for HPC groups but might be very useful for groups that do not have much HPC experience or a less tuned code basis

Thank you very much.

Contact

Contribution ID: 4357f237-7b61-4942-9db0-348f6f991257

Date: 01/04/2020 11:59:34



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR_nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR 023

*2. Application name

SPH-EXA

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

* Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
*5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
* 6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
Two, because that he lited about possible problems
* 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of
person days/months)
NI/A
N/A
*8. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
Any suggestions for improvement of the Performance Assessment?
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It would have been nice to have been able to include a GPU-based system in the evaluation. * 9. Overall, are you satisfied with this assessment? O Very satisfied
It would have been nice to have been able to include a GPU-based system in the evaluation. * 9. Overall, are you satisfied with this assessment? Output Very satisfied Satisfied Partly satisfied Not Satisfied * 10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No Under which conditions (in addition to the review of the article before publication)?
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It would have been nice to have been able to include a GPU-based system in the evaluation. *9. Overall, are you satisfied with this assessment? © Very satisfied © Satisfied © Partly satisfied © Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. © Yes © Yes, under certain conditions © No Under which conditions (in addition to the review of the article before publication)? The SPH-EXA code is under continued development. Therefore, we will make a new request to POP for a more recent analysis to show improvements in the code. It might not make sense to publish the results of the
It would have been nice to have been able to include a GPU-based system in the evaluation. * 9. Overall, are you satisfied with this assessment? ② Very satisfied ② Satisfied ② Partly satisfied ② Not Satisfied * 10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. ③ Yes ③ Yes, under certain conditions ② No Under which conditions (in addition to the review of the article before publication)? The SPH-EXA code is under continued development. Therefore, we will make a new request to POP for a
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It would have been nice to have been able to include a GPU-based system in the evaluation. *9. Overall, are you satisfied with this assessment? © Very satisfied © Satisfied © Partly satisfied © Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. © Yes © Yes, under certain conditions © No Under which conditions (in addition to the review of the article before publication)? The SPH-EXA code is under continued development. Therefore, we will make a new request to POP for a more recent analysis to show improvements in the code. It might not make sense to publish the results of the
It would have been nice to have been able to include a GPU-based system in the evaluation. *9. Overall, are you satisfied with this assessment? Output Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No Under which conditions (in addition to the review of the article before publication)? The SPH-EXA code is under continued development. Therefore, we will make a new request to POP for a more recent analysis to show improvements in the code. It might not make sense to publish the results of the particular report of November 2019 but of subsequent reports.

12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment)
O Yes
No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)?
Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated? Please enter a date in the following format (DD/MM/YYYYY)
We have developments and improvements to the code since October 2019. We will ask for a new performance assessment in April 2020. We will continue to develop the code and hope that we can receive another performance assessment in July 2020.
* 14. Do you have other applications for which a Performance Assessment would be useful? O Yes No
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes Not sure No
Could you say why?
The motivation for us is to obtain an independent and unbiased performance assessment on systems that we do not have access to using metrics that we do not typically use. Otherwise, we could (with more effort of course) conduct the assessment ourselves. However, this might not be the case for other application users /developers.
* 16. Would you recommend the POP service to your colleagues?
Thank you very much.

Contribution ID: 96a6b911-ff3f-425a-b34c-f054b9817d93

Date: 04/10/2019 16:20:54



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2_AR_024

*2. Application name

CHORUS

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

	Very efficiently
(Rather efficiently (no major problem)
(Rather difficult (e.g. unreasonable delay, unexpected constraints,)
(Poorly conducted
	- Confidence
• E I	and did you find the Deviermance Assessment Deport?
	ow did you find the Performance Assessment Report?
	Clear and easy to understand
(Somewhat difficult to understand
(Not at all clear
0.5	
	id the recommendations just confirm what you knew from a previous analysis or by experience?
) Yes
(No, I didn't suspect some of the problems revealed by this assessment
(No, because I had no idea about possible problems
Whi	ch problems were unexpected?
[Inefficient use of simultaneous threads
[Lack of (or inefficient) use of vectorization
[Inefficient use of memory
[Inefficient communications (MPI, I/O,)
[Poor scalability
[✓ Load inbalance
	Other (please specify)
ı	Other (please specify)
	ow much effort was required from you to complete this Performance Assessment? (rough estimate of
	ow much effort was required from you to complete this Performance Assessment? (rough estimate of
	ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months)
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pers	ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) 1 week id POP fulfil your expectations?
pers [ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) 1 week id POP fulfil your expectations? Entirely Partly Not enough Not at all
* 8. D	ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) 1 week id POP fulfil your expectations? Entirely Partly Not enough Not at all verall, are you satisfied with this assessment?
* 8. D	ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) 1 week id POP fulfil your expectations? Entirely Partly Not enough Not at all
* 8. D	ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) 1 week id POP fulfil your expectations? Entirely Partly Not enough Not at all verall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied
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* 8. D	ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) 1 week id POP fulfil your expectations? Entirely Partly Not enough Not at all verall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied Are you happy for POP to publish the results of the Performance Assessment?
*8. D *9. C	ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) 1 week id POP fulfil your expectations? Entirely Partly Not enough Not at all verall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied Are you happy for POP to publish the results of the Performance Assessment? e: You will be able to review any article before it is published. Yes Yes, under certain conditions No
* 8. D * 9. C * 10.	ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) 1 week id POP fulfil your expectations? Entirely Partly Not enough Not at all verall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied Are you happy for POP to publish the results of the Performance Assessment? Yes Yes, under certain conditions No Would you be interested in receiving any training?
* 8. D * 9. C * 10.	ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) 1 week id POP fulfil your expectations? Entirely Partly Not enough Not at all verall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied Are you happy for POP to publish the results of the Performance Assessment? e: You will be able to review any article before it is published. Yes Yes, under certain conditions No
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*8. D *9. C *10. No	ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) 1 week id POP fulfil your expectations? Entirely Partly Not enough Not at all verall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied Are you happy for POP to publish the results of the Performance Assessment? Yes Yes, under certain conditions No Would you be interested in receiving any training?
*8. D *9. C *10. No	ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) 1 week id POP fulfil your expectations? Entirely Partly Not enough Not at all verall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied Are you happy for POP to publish the results of the Performance Assessment? Yes You will be able to review any article before it is published. Yes Yes, under certain conditions No Would you be interested in receiving any training? Yes No
*8. D *9. C *10. No	ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) 1 week id POP fulfil your expectations? Entirely Partly Not enough Not at all verall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied Are you happy for POP to publish the results of the Performance Assessment? Yes You will be able to review any article before it is published. Yes Yes, under certain conditions No Would you be interested in receiving any training? Yes No

 * 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Yes
No, I have got enough information
 * 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)? Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated? Please enter a date in the following format (DD/MM/YYYYY)
 * 14. Do you have other applications for which a Performance Assessment would be useful? Yes
O No
How many and when do you plan to get them assessed?
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes Not sure No
Could you say why?
* 16. Would you recommend the POP service to your colleagues?
Thank you very much.
Contact
pop-surveys@teratec.eu

Contribution ID: d19f2bc7-13bd-4cb3-83d3-6b6dfc360cf6

Date: 28/04/2020 15:31:14



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR_nnn (Indicated on the front page of the Performance Assessment Report)

POP AR 025

* 2. Application name

Terrsysmp-PDAF

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

* O Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
* 5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
Could you say why?
I personally am not an informaticin / IT-expert so it takes some more time to understand some plots
 ★ 6. Did the recommendations just confirm what you knew from a previous analysis or by experience? ✓ Yes
 No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems No idea about possible problems
No, because i nau no idea about possible problems
Which problems were unexpected?
☐ Inefficient use of simultaneous threads
Lack of (or inefficient) use of vectorization
☐ Inefficient use of memory
☐ Inefficient communications (MPI, I/O,)
Poor scalability
Load inbalance
Other (please specify)
Other (please specify)
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months)
1
*8. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
Entirely Party Not enough Not at all
* O Overall, are very estisfied with this accessment?
* 9. Overall, are you satisfied with this assessment?
Very satisfied Satisfied Partly satisfied Not Satisfied
+ 10. Are you have you populate publish the regults of the Devformance Accessment?
* 10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published.
Yes Yes, under certain conditions No
100, and obtain oblidations 140
* 11. Would you be interested in receiving any training?
Yes No
□ 162 □ INO

refactored to address some of the issues found in the Performance Assessment)
Yes
No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed) ?
Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated? Please enter a date in the following format (DD/MM/YYYY)
Still one year at least is needed
 * 14. Do you have other applications for which a Performance Assessment would be useful? Yes No * 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) Yes Not sure No
Could you say why?
We are in close contact with JSC and would think that in the context of the collaborations a performance assessment can be made
 * 16. Would you recommend the POP service to your colleagues? ● Yes ● Possibly ● No Thank you very much.

samir.ben-chaabane@teratec.eu

Contribution ID: 05b2df22-67d8-4ae0-a74d-8dc7272e44ff

Date: 06/02/2020 12:01:46



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2_AR_026

*2. Application name

Arbor

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

* Very efficiently	
Rather efficiently (no major problem)	
Rather difficult (e.g. unreasonable delay, unexpected constraints,)	
Poorly conducted	
⋆5. How did you find the Performance Assessment Report?	
Clear and easy to understand	
 Somewhat difficult to understand 	
Not at all clear	
*6. Did the recommendations just confirm what you knew from a previous analysis or by experience?	
Yes	
No, I didn't suspect some of the problems revealed by this assessment	
No, because I had no idea about possible problems	
7 Harrison by affective a consideration of the consideration by the Device of the consideration of the considerati	- f
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months)	ΣŢ
10 person days	
*8. Did POP fulfil your expectations?	
Entirely Partly Not enough Not at all 	
Any suggestions for improvement of the Performance Assessment?	
*9. Overall, are you satisfied with this assessment?	
 Very satisfied Satisfied Partly satisfied Not Satisfied 	
40.4	
* 10. Are you hanny for POP to nublish the results of the Performance Assessment?	
* 10. Are you happy for POP to publish the results of the Performance Assessment?	
Note: You will be able to review any article before it is published.	
Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No	
Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No *11. Would you be interested in receiving any training?	
Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No	
Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No * 11. Would you be interested in receiving any training? Yes No	
Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No * 11. Would you be interested in receiving any training? Yes No * 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be	
Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No * 11. Would you be interested in receiving any training? Yes No * 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment)	
Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No * 11. Would you be interested in receiving any training? Yes No * 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Yes	
Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No * 11. Would you be interested in receiving any training? Yes No * 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment)	
Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No * 11. Would you be interested in receiving any training? Yes No * 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Yes	

proposed) ?

Y	'es
N	Not yet
	lo, we don't plan to modify our code
* 14. Do y © Y © N	
service i	ed on this experience, would your organisation be prepared to pay for a Performance Assessment in the future? (After the end of the European Commission funded POP project.) Yes Not sure No
Could yo	ou say why?
	uld you recommend the POP service to your colleagues? 'es Possibly No

Thank you very much.

Contact

Contribution ID: c61d4fc6-b7e1-49c8-9afe-cf10c0ec242d

Date: 02/12/2019 16:39:03



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2_AR_030

*2. Application name

Incompressible Gloria

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

* Very efficiently	
Rather efficiently (no major problem)	
Rather difficult (e.g. unreasonable delay, unexpected constraints,)	
Poorly conducted	
*5. How did you find the Performance Assessment Report?	
Clear and easy to understand	
Somewhat difficult to understand	
Not at all clear	
Could you say why?	
It was not so clear understanding performance projections making assumption on the values of some metrics. But conversations with experts were very important to better understand.	
* 6. Did the recommendations just confirm what you knew from a previous analysis or by experience?	
O Yes	
No, I didn't suspect some of the problems revealed by this assessment	
No, because I had no idea about possible problems	
Which problems were unexpected?	
Inefficient use of simultaneous threads	
Lack of (or inefficient) use of vectorization	
☐ Inefficient use of memory	
☐ Inefficient communications (MPI, I/O,)	
Poor scalability	
Load inbalance	
Other (please specify)	
* 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months)	
2 days	
2 days	
*8. Did POP fulfil your expectations?	
Entirely Partly Not enough Not at all	
*9. Overall, are you satisfied with this assessment?	
Very satisfied Partly satisfied Not Satisfied 	
* 10. Are you happy for POP to publish the results of the Performance Assessment?	
Note: You will be able to review any article before it is published.	
Yes Yes, under certain conditions No	
* 11. Would you be interested in receiving any training?	
Yes No	

Which kind of training does your team need?
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Output Output Description:
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed) ? Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated? Please enter a date in the following format (DD/MM/YYYYY)
31/12/2019
* 14. Do you have other applications for which a Performance Assessment would be useful? O Yes No How many and when do you plan to get them assessed?
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) Output Ves Not sure No Could you say why?
It depends on the cost. After this experience, we think we could get an approximated Performance Assessment by our own. Expertise from POP is surely an added value, therefore the cost should be bound
to the delta of what we could get by our own and what can be obtained with an expert assessment. Moreover, paying for PA depends on the readiness level of the code under investigation.
*16. Would you recommend the POP service to your colleagues?
Yes Possibly No
Thank you very much.

Contribution ID: e78a1a5e-3f0f-40be-ab41-0314a8e23d81

Date: 02/12/2019 16:49:10



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2_AR_031

*2. Application name

compressible Gloria

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
* 5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
Could you say why?
Some more explanation about performance projections were needed
Como moro explanation about ponormanos projections were necessar
⋆ 6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
O Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
Which problems were unexpected?
☐ Inefficient use of simultaneous threads
Lack of (or inefficient) use of vectorization
Inefficient use of memory
Inefficient communications (MPI, I/O,)
Poor scalability
Load inbalance
Other (please specify)
Which other problems?
Scalability degradation introducing a second level of parallelization to MPI, i.e. OpenMP
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of
person days/months)
2 days
* 8. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
= =or, = =
+ Q. Ovorall, are you esticfied with this accessment?
* 9. Overall, are you satisfied with this assessment?
Very satisfied Satisfied Partly satisfied Not Satisfied
* 10. Are you happy for POP to publish the results of the Performance Assessment?

Note: You will be able to review any article before it is published.

Which kind of training does your team need?	
On tools used during the assessment	
 * 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Yes No, I have got enough information 	Э
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed) ?	
 Yes Not yet No, we don't plan to modify our code 	
When approximately, do you expect to have all needed modifications done and validated? Please enter a date in the following format (DD/MM/YYYY)	
31/12/2019	
* 14. Do you have other applications for which a Performance Assessment would be useful? O Yes No	
How many and when do you plan to get them assessed?	
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessn service in the future? (After the end of the European Commission funded POP project.) O Yes O Not sure No	nent
Could you say why?	
It depends on the cost. Getting some more information about PA, we probably will be able to get an approximated PA by our own. Surely, POP experience is an added value. We think the cost should be relative to gap between what we can do by our own and what not. Moreover, we will pay for PA of a code	2

with a certain level of readiness or of a code our experience in performance assessment can not tell us

*16. Would you recommend the POP service to your colleagues?

enough to get a better performance.

0	Yes		Possibly		No
---	-----	--	----------	--	----

Contact

Contribution ID: 11a179e5-3c92-49af-8606-67f26ec6a573

Date: 04/05/2020 09:35:46



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

*	1.	Report	Ref	erence	lc	lentifier
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POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2_AR_032

*2. Application name

BEM4I

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

Rather efficiently (no major problem)	
hattler efficiently (no major problem)	
Rather difficult (e.g. unreasonable delay, unexpected constraints,)	
Poorly conducted	
* E. Llow did you find the Deviewmence Assessment Depost?	
*5. How did you find the Performance Assessment Report?	
Clear and easy to understand	
Somewhat difficult to understand	
Not at all clear	
⋆6. Did the recommendations just confirm what you knew from a previous analysis or by experience?	
Yes	
No, I didn't suspect some of the problems revealed by this assessment	
No, because I had no idea about possible problems	
110, because i flad no luca about possible problems	
7 H	
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate	ΟĬ
person days/months)	
ten days (preparation, discussion, interpretation)	
*8. Did POP fulfil your expectations?	
Entirely Partly Not enough Not at all	
+ 0. Overall, are you getisfied with this accomment?	
*9. Overall, are you satisfied with this assessment?	
 Very satisfied Satisfied Partly satisfied Not Satisfied 	
*10. Are you happy for POP to publish the results of the Performance Assessment?	
Note: You will be able to review any article before it is published.	
Yes Yes, under certain conditions No	
*11. Would you be interested in receiving any training?	
Yes No	
Yes Wino	
*12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be)
refactored to address some of the issues found in the Performance Assessment)	
Yes	
YesNo, I have got enough information	
No, I have got enough information	
 No, I have got enough information *13. Do you have a plan to modify your code (taking into account the recommendations that have been 	
 No, I have got enough information *13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)? 	
 No, I have got enough information *13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)? Yes 	
 No, I have got enough information *13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)? Yes Not yet 	
 No, I have got enough information *13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)? Yes 	

*14. Do you have other applications for which a Performance Assessment would be useful?

No	
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes Not sure No	
Could you say why?	
* 16. Would you recommend the POP service to your colleagues? O Yes Possibly No	
Could you say why?	

Contact

pop-surveys@teratec.eu

Yes

Contribution ID: 8a2e3d53-8457-4a16-b424-a4122a200c13

Date: 14/01/2020 11:22:03



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report	Reference	Identifier
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POP2 AR **nnn** (Indicated on the front page of the Performance Assessment Report)

POP2_AR_033

* 2. Application name

SEM46

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

0	Very efficiently
	Rather efficiently (no major problem)
0	Rather difficult (e.g. unreasonable delay, unexpected constraints,)
0	Poorly conducted
* 5. Hov	v did you find the Performance Assessment Report?
	Clear and easy to understand
0	Somewhat difficult to understand
	Not at all clear
	Not at all clear
+6 Did	the recommendations just confirm what you knew from a previous analysis or by experience?
	Yes
_	
•	No, I didn't suspect some of the problems revealed by this assessment
	No, because I had no idea about possible problems
\	
vvnich	problems were unexpected?
	Inefficient use of simultaneous threads
	Lack of (or inefficient) use of vectorization
	Inefficient use of memory
	Inefficient communications (MPI, I/O,)
	Poor scalability
	Load inbalance
V	Other (please specify)
Which	other problems?
	other problems? PC values, presence of unused MPI_BARRIER
IF	
* 7. Hov	C values, presence of unused MPI_BARRIER
* 7. Hov	PC values, presence of unused MPI_BARRIER w much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months)
* 7. Hov	PC values, presence of unused MPI_BARRIER w much effort was required from you to complete this Performance Assessment? (rough estimate of
* 7. Hov	PC values, presence of unused MPI_BARRIER w much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months)
* 7. How persor	PC values, presence of unused MPI_BARRIER w much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months)
* 7. Hov persor	PC values, presence of unused MPI_BARRIER w much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) pout 5 days spreaded on 1 month
* 7. Hov persor	PC values, presence of unused MPI_BARRIER w much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) pout 5 days spreaded on 1 month POP fulfil your expectations?
* 7. How persor a	PC values, presence of unused MPI_BARRIER w much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) pout 5 days spreaded on 1 month POP fulfil your expectations? Entirely Partly Not enough Not at all
* 7. How person a * 8. Did • 9. Ove	PC values, presence of unused MPI_BARRIER w much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) pout 5 days spreaded on 1 month POP fulfil your expectations? Entirely Partly Not enough Not at all prall, are you satisfied with this assessment?
* 7. How person a * 8. Did • 9. Ove	PC values, presence of unused MPI_BARRIER w much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) pout 5 days spreaded on 1 month POP fulfil your expectations? Entirely Partly Not enough Not at all
* 7. How persor a * 8. Did • 9. Ove	PC values, presence of unused MPI_BARRIER w much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) cout 5 days spreaded on 1 month POP fulfil your expectations? Entirely Partly Not enough Not at all erall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied
* 7. How person a * 8. Did • 9. Ove • 10. Are	PC values, presence of unused MPI_BARRIER If much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) If days spreaded on 1 month POP fulfil your expectations? Entirely Partly Not enough Not at all If are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied If you happy for POP to publish the results of the Performance Assessment?
* 7. How persor a * 8. Did * 9. Ove * 10. Are Note:	PC values, presence of unused MPI_BARRIER If much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) If days spreaded on 1 month POP fulfil your expectations? Entirely Partly Not enough Not at all If are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied If you happy for POP to publish the results of the Performance Assessment? You will be able to review any article before it is published.
* 7. How persor a * 8. Did * 9. Ove * 10. Are Note:	PC values, presence of unused MPI_BARRIER If much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) If days spreaded on 1 month POP fulfil your expectations? Entirely Partly Not enough Not at all If are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied If you happy for POP to publish the results of the Performance Assessment?
* 7. How persor a * 8. Did * 9. Ove * 10. Are Note:	PC values, presence of unused MPI_BARRIER of much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) pout 5 days spreaded on 1 month POP fulfil your expectations? Entirely Partly Not enough Not at all orall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied e you happy for POP to publish the results of the Performance Assessment? You will be able to review any article before it is published. Yes Yes, under certain conditions No
* 7. How persor a * 8. Did * 9. Ove * 10. Are Note: * 11. We	PC values, presence of unused MPI_BARRIER If much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) If days spreaded on 1 month POP fulfil your expectations? Entirely Partly Not enough Not at all If are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied If you happy for POP to publish the results of the Performance Assessment? You will be able to review any article before it is published.

use of HPC analysis tools
*12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) O Yes No, I have got enough information
 * 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)? Yes Not yet No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated? Please enter a date in the following format (DD/MM/YYYY)
31/12/2020
 * 14. Do you have other applications for which a Performance Assessment would be useful? Yes No
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) Output Description:
Could you say why?
no so much funds dedicated to that in our University
* 16. Would you recommend the POP service to your colleagues? Output Output
Thank you very much.

Contact

pop-surveys@teratec.eu

Which kind of training does your team need?

Contribution ID: 84dbdb50-5ebf-4921-ada2-3a8627a6226e

Date: 01/04/2020 14:34:48



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR_nnn (Indicated on the front page of the Performance Assessment Report)

POP_AR_034

*2. Application name

jCFD_GENESIS

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

	Very efficiently
	Rather efficiently (no major problem)
	Rather difficult (e.g. unreasonable delay, unexpected constraints,)
	Poorly conducted
* 5. H	ow did you find the Performance Assessment Report?
	Clear and easy to understand
	Somewhat difficult to understand
	Not at all clear
	d the recommendations just confirm what you knew from a previous analysis or by experience?
	Yes
	No, I didn't suspect some of the problems revealed by this assessment
	No, because I had no idea about possible problems
Whi	h problems were unexpected?
	Inefficient use of simultaneous threads
	Lack of (or inefficient) use of vectorization
	Inefficient use of memory
	Inefficient communications (MPI, I/O,)
	Poor scalability
	Load inbalance
	Other (please specify)
* 7. H	ow much effort was required from you to complete this Performance Assessment? (rough estimate of
	ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months)
	on days/months)
pers	on days/months) 3 days
pers	d POP fulfil your expectations?
pers	on days/months) 3 days
pers (d POP fulfil your expectations? Entirely Partly Not enough Not at all
pers (on days/months) 3 days d POP fulfil your expectations? Entirely Partly Not enough Not at all suggestions for improvement of the Performance Assessment?
pers (on days/months) 3 days d POP fulfil your expectations? Entirely Partly Not enough Not at all suggestions for improvement of the Performance Assessment? it was very useful to get the analysis - currently the work is ongoing to remedy the problems and to improve
pers (on days/months) 3 days d POP fulfil your expectations? Entirely Partly Not enough Not at all suggestions for improvement of the Performance Assessment?
pers (and days/months) 3 days d POP fulfil your expectations? Entirely Partly Not enough Not at all suggestions for improvement of the Performance Assessment? it was very useful to get the analysis - currently the work is ongoing to remedy the problems and to improve
pers (on days/months) 3 days d POP fulfil your expectations? Entirely Partly Not enough Not at all suggestions for improvement of the Performance Assessment? it was very useful to get the analysis - currently the work is ongoing to remedy the problems and to improve
*8. C	on days/months) 3 days d POP fulfil your expectations? Entirely Partly Not enough Not at all suggestions for improvement of the Performance Assessment? it was very useful to get the analysis - currently the work is ongoing to remedy the problems and to improve
* 8. D	and days/months) 3 days d POP fulfil your expectations? Entirely Partly Not enough Not at all suggestions for improvement of the Performance Assessment? it was very useful to get the analysis - currently the work is ongoing to remedy the problems and to improve the efficiency
* 8. D	and days/months) 3 days d POP fulfil your expectations? Entirely Partly Not enough Not at all suggestions for improvement of the Performance Assessment? it was very useful to get the analysis - currently the work is ongoing to remedy the problems and to improve the efficiency
* 8. D	and days/months) 3 days d POP fulfil your expectations? Entirely Partly Not enough Not at all suggestions for improvement of the Performance Assessment? it was very useful to get the analysis - currently the work is ongoing to remedy the problems and to improve the efficiency
* 8. D	and days/months) 3 days d POP fulfil your expectations? Entirely Partly Not enough Not at all suggestions for improvement of the Performance Assessment? it was very useful to get the analysis - currently the work is ongoing to remedy the problems and to improve the efficiency verall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied
* 8. D Any * 9. C	and days/months) 3 days d POP fulfil your expectations? Entirely Partly Not enough Not at all suggestions for improvement of the Performance Assessment? it was very useful to get the analysis - currently the work is ongoing to remedy the problems and to improve the efficiency verall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied very you happy for POP to publish the results of the Performance Assessment?

Under which conditions (in addition to the review of the article before publication)?

we need to see the report before it is published for confidentiality	
* 11. Would you be interested in receiving any training? © Yes No	
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Output Output Description:	
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)? Output Not yet No, we don't plan to modify our code When approximately, do you expect to have all needed modifications done and validated? Please enter a date in the following format (DD/MM/YYYY)	
in 3 months	
 * 14. Do you have other applications for which a Performance Assessment would be useful? Yes No * 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment 	
service in the future? (After the end of the European Commission funded POP project.) O Yes No No	
Could you say why?	
difficult to make any prediction whilst the corona problem and its impact on businesses ongoing	
* 16. Would you recommend the POP service to your colleagues? Output Output	
Thank you very much.	

Contact

Contribution ID: 7fc403b4-a554-4909-918b-c51808b6761b

Date: 16/04/2020 13:01:33



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

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As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report	Reference	Identifier
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POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2_AR_035

*2. Application name

IFS

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

	Very efficiently
	Rather efficiently (no major problem)
0	Rather difficult (e.g. unreasonable delay, unexpected constraints,)
0	Poorly conducted
* 5 How	did you find the Performance Assessment Report?
_	·
_	Clear and easy to understand
_	Somewhat difficult to understand
0	Not at all clear
0 D: I	
	the recommendations just confirm what you knew from a previous analysis or by experience?
_	Yes
•	No, I didn't suspect some of the problems revealed by this assessment
	No, because I had no idea about possible problems
_	problems were unexpected?
J	Inefficient use of simultaneous threads
	Lack of (or inefficient) use of vectorization
	Inefficient use of memory
V	Inefficient communications (MPI, I/O,)
J	Poor scalability
_	Load inbalance
	Other (please specify)
	much effort was required from you to complete this Performance Assessment? (rough estimate of
persor	w much effort was required from you to complete this Performance Assessment? (rough estimate of days/months)
persor	much effort was required from you to complete this Performance Assessment? (rough estimate of
persor	w much effort was required from you to complete this Performance Assessment? (rough estimate of days/months)
persor 2	w much effort was required from you to complete this Performance Assessment? (rough estimate of days/months)
persor 2 *8. Did	much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) person days, intermittent spread over a few weeks, submit jobs, fix issues with compile
persor 2 *8. Did	much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) person days, intermittent spread over a few weeks, submit jobs, fix issues with compile POP fulfil your expectations?
persor 2 * 8. Did	much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) person days, intermittent spread over a few weeks, submit jobs, fix issues with compile POP fulfil your expectations? Entirely Partly Not enough Not at all
persor 2 * 8. Did • 9. Ove	which effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) person days, intermittent spread over a few weeks, submit jobs, fix issues with compile POP fulfil your expectations? Entirely Partly Not enough Not at all rall, are you satisfied with this assessment?
persor 2 * 8. Did • 9. Ove	much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) person days, intermittent spread over a few weeks, submit jobs, fix issues with compile POP fulfil your expectations? Entirely Partly Not enough Not at all
persor 2 * 8. Did • 9. Ove	much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) person days, intermittent spread over a few weeks, submit jobs, fix issues with compile POP fulfil your expectations? Entirely Partly Not enough Not at all rall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied
* 8. Did * 9. Ove * 10. Are	which effort was required from you to complete this Performance Assessment? (rough estimate of adays/months) person days, intermittent spread over a few weeks, submit jobs, fix issues with compile POP fulfil your expectations? Entirely Partly Not enough Not at all rall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied e you happy for POP to publish the results of the Performance Assessment?
* 8. Did * 9. Ove * 10. Are Note:	which effort was required from you to complete this Performance Assessment? (rough estimate of adays/months) person days, intermittent spread over a few weeks, submit jobs, fix issues with compile POP fulfil your expectations? Entirely Partly Not enough Not at all rall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied e you happy for POP to publish the results of the Performance Assessment? You will be able to review any article before it is published.
* 8. Did * 9. Ove * 10. Are Note:	which effort was required from you to complete this Performance Assessment? (rough estimate of adays/months) person days, intermittent spread over a few weeks, submit jobs, fix issues with compile POP fulfil your expectations? Entirely Partly Not enough Not at all rall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied e you happy for POP to publish the results of the Performance Assessment?
* 8. Did * 9. Ove * 10. Are Note:	r much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) person days, intermittent spread over a few weeks, submit jobs, fix issues with compile POP fulfil your expectations? Entirely Partly Not enough Not at all rall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied e you happy for POP to publish the results of the Performance Assessment? You will be able to review any article before it is published. Yes Yes, under certain conditions No
* 8. Did * 9. Ove * 10. Are Note: * 11. Wo	r much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) person days, intermittent spread over a few weeks, submit jobs, fix issues with compile POP fulfil your expectations? Entirely Partly Not enough Not at all rall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied e you happy for POP to publish the results of the Performance Assessment? You will be able to review any article before it is published. Yes Yes, under certain conditions No
* 8. Did * 9. Ove * 10. Are Note: * 11. Wo	r much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) person days, intermittent spread over a few weeks, submit jobs, fix issues with compile POP fulfil your expectations? Entirely Partly Not enough Not at all rall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied e you happy for POP to publish the results of the Performance Assessment? You will be able to review any article before it is published. Yes Yes, under certain conditions No
* 8. Did * 9. Ove * 10. Are Note: * 11. Wo	r much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) person days, intermittent spread over a few weeks, submit jobs, fix issues with compile POP fulfil your expectations? Entirely Partly Not enough Not at all rall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied e you happy for POP to publish the results of the Performance Assessment? You will be able to review any article before it is published. Yes Yes, under certain conditions No
* 8. Did * 9. Ove * 10. Are Note: * 11. Wo	r much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) person days, intermittent spread over a few weeks, submit jobs, fix issues with compile POP fulfil your expectations? Entirely Partly Not enough Not at all rall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied e you happy for POP to publish the results of the Performance Assessment? You will be able to review any article before it is published. Yes Yes, under certain conditions No
* 8. Did * 9. Ove * 10. Are Note: * 11. Wo * 12. Are	which effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) person days, intermittent spread over a few weeks, submit jobs, fix issues with compile POP fulfil your expectations? Entirely Partly Not enough Not at all rall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied e you happy for POP to publish the results of the Performance Assessment? You will be able to review any article before it is published. Yes Yes, under certain conditions No pulld you be interested in receiving any training? Yes No
* 8. Did * 9. Ove * 10. Are Note: * 11. Wo * 12. Are refactor	r much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) person days, intermittent spread over a few weeks, submit jobs, fix issues with compile POP fulfil your expectations? Entirely Partly Not enough Not at all rall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied e you happy for POP to publish the results of the Performance Assessment? You will be able to review any article before it is published. Yes Yes, under certain conditions No pulld you be interested in receiving any training? Yes No e you interested in a Proof-of-Concept service? (to better understand how your application can be

*13. Do you have a plan to modify your code (taking into account the recommendations that have been
proposed) ?
Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated?
Please enter a date in the following format (DD/MM/YYYY)
01/01/2021
*14. Do you have other applications for which a Performance Assessment would be useful?
Yes
O No
How many and when do you plan to get them assessed?
some work is ongoing, ocean and wave model
+15. Perced on this experience, would your erganization be prepared to now for a Performance Accessment
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.)
Yes Not sure No
Could you say why?
This would require a change in company policy for manny allegated for computing consisce other than
This would require a change in company policy for money allocated for computing services other than specific HPC vendor related, which is outside my area of responsibility.
epecinic riii e veriaci relatea, wiileri le catellae iii, area er respensionity.
* 16. Would you recommend the POP service to your colleagues?
Yes Possibly No
Thank you very much.
Contact

No, I have got enough information

Contribution ID: 8ef747c1-16ec-458e-9f59-1bf6f79fdc87

Date: 11/06/2020 15:41:49



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

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As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2_AR_036

*2. Application name

FRAMstim

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

0	very efficiently
	Rather efficiently (no major problem)
	Rather difficult (e.g. unreasonable delay, unexpected constraints,)
0	Poorly conducted
*5 Hov	w did you find the Performance Assessment Report?
_	·
	Clear and easy to understand
	Somewhat difficult to understand
0	Not at all clear
	the recommendations just confirm what you knew from a previous analysis or by experience?
•	Yes
0	No, I didn't suspect some of the problems revealed by this assessment
	No, because I had no idea about possible problems
* 7. Hov	w much effort was required from you to complete this Performance Assessment? (rough estimate of
	n days/months)
1	
* 8. Did	POP fulfil your expectations?
	Entirely Partly Not enough Not at all
	Entiroly of facility of Not all all
• 0 0	
	erall, are you satisfied with this assessment?
•	Very satisfied Satisfied Partly satisfied Not Satisfied
* 10. Ar	e you happy for POP to publish the results of the Performance Assessment?
()	You will be able to review any article before it is published.
_	You will be able to review any article before it is published. Yes Ves, under certain conditions No
* 11. W	Yes Ves, under certain conditions No Yould you be interested in receiving any training?
* 11. W	Yes Ves, under certain conditions No
* 11. W	Yes Ves, under certain conditions No Yould you be interested in receiving any training? Yes No
* 11. W	Yes Ves, under certain conditions No Yould you be interested in receiving any training? Yes No Yes vou interested in a Proof-of-Concept service? (to better understand how your application can be
* 11. Wo	Yes Ves, under certain conditions No Yould you be interested in receiving any training? Yes No Yes No Yes vou interested in a Proof-of-Concept service? (to better understand how your application can be ored to address some of the issues found in the Performance Assessment)
* 11. Wo	Yes Ves, under certain conditions No Yould you be interested in receiving any training? Yes No Yes No Yes vou interested in a Proof-of-Concept service? (to better understand how your application can be ored to address some of the issues found in the Performance Assessment) Yes
* 11. Wo	Yes Ves, under certain conditions No Yould you be interested in receiving any training? Yes No Yes No Yes vou interested in a Proof-of-Concept service? (to better understand how your application can be ored to address some of the issues found in the Performance Assessment)
* 11. Wo	Yes Ves, under certain conditions No Yould you be interested in receiving any training? Yes No Yes No Yes vou interested in a Proof-of-Concept service? (to better understand how your application can be ored to address some of the issues found in the Performance Assessment) Yes
*11. Wo	Yes Ves, under certain conditions No Yould you be interested in receiving any training? Yes No Yes No Yes vou interested in a Proof-of-Concept service? (to better understand how your application can be ored to address some of the issues found in the Performance Assessment) Yes
*11. Wo	Yes Yes, under certain conditions No Yould you be interested in receiving any training? Yes No Yes No Yes vou interested in a Proof-of-Concept service? (to better understand how your application can be ored to address some of the issues found in the Performance Assessment) Yes No, I have got enough information You have a plan to modify your code (taking into account the recommendations that have been
* 12. Ar refacto * 13. Do propos	Yes Yes, under certain conditions No Yould you be interested in receiving any training? Yes No Yes No Yes vou interested in a Proof-of-Concept service? (to better understand how your application can be ored to address some of the issues found in the Performance Assessment) Yes No, I have got enough information You have a plan to modify your code (taking into account the recommendations that have been
* 12. Ar refacto * 13. Do propos	Yes Ves, under certain conditions No Yould you be interested in receiving any training? Yes No Yes No Yes vou interested in a Proof-of-Concept service? (to better understand how your application can be ored to address some of the issues found in the Performance Assessment) Yes No, I have got enough information You have a plan to modify your code (taking into account the recommendations that have been sed)?
* 12. Ar refacto * 13. Do propos	Yes Ves, under certain conditions No Yould you be interested in receiving any training? Yes No Yes No Yes vou interested in a Proof-of-Concept service? (to better understand how your application can be ored to address some of the issues found in the Performance Assessment) Yes No, I have got enough information You have a plan to modify your code (taking into account the recommendations that have been sed)? Yes

When approximately, do you expect to have all needed modifications done and validated?

	2 months
	Do you have other applications for which a Performance Assessment would be useful? Yes No
Hov	w many and when do you plan to get them assessed?
	1
ser	Based on this experience, would your organisation be prepared to pay for a Performance Assessment vice in the future? (After the end of the European Commission funded POP project.) Yes Not sure No
Cou	uld you say why?
	industrial Partner could be interted
* 16.	Would you recommend the POP service to your colleagues? Possibly No

Contact

samir.ben-chaabane@teratec.eu

Contribution ID: bcb5ee3b-f74c-4832-9ec0-c83bd8edb699

Date: 13/03/2020 15:51:48



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report	Reference	Identifier
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POP2 AR **nnn** (Indicated on the front page of the Performance Assessment Report)

POP2_AR_037

*2. Application name

Darknet

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

* Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
⋆ 5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
*6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
* 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of
person days/months)
3/month
G/mg/mg/
*8. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
* 9. Overall, are you satisfied with this assessment?
Very satisfied Satisfied Partly satisfied Not Satisfied
*10. Are you happy for POP to publish the results of the Performance Assessment?
Note: You will be able to review any article before it is published.
Yes Yes, under certain conditions No
* 11. Would you be interested in receiving any training?
Yes No
Which kind of training does your team need?
paralell profiling cpu and gpu
paraleli profilirig opu and gpu
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be
refactored to address some of the issues found in the Performance Assessment)
O Yes
No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been
proposed) ?
Yes
Not yet

No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated? Please enter a date in the following format (DD/MM/YYYYY)
3months
* 14. Do you have other applications for which a Performance Assessment would be useful? O Yes No
How many and when do you plan to get them assessed?
1
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) Output Description:
Could you say why?
price
*16. Would you recommend the POP service to your colleagues? Oxyld you recommend the POP service to your colleagues? No
Could you say why?

Contact

Contribution ID: 3bb2780f-b3aa-4df5-9a02-54f2cd40abe8

Date: 28/04/2020 11:24:30



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

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* 1. Report	Reference	Identifier
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POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP_AR_039

*2. Application name

ASHEE

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

	Very efficiently
	Rather efficiently (no major problem)
0	Rather difficult (e.g. unreasonable delay, unexpected constraints,)
0	Poorly conducted
* 5. Hov	w did you find the Performance Assessment Report?
•	·
0	Somewhat difficult to understand
0	Not at all clear
*6 Did	the recommendations just confirm what you knew from a previous analysis or by experience?
	Yes
	No, I didn't suspect some of the problems revealed by this assessment
	No, because I had no idea about possible problems
Which	problems were unexpected?
	Inefficient use of simultaneous threads
	Lack of (or inefficient) use of vectorization
	Inefficient use of memory
V	Inefficient communications (MPI, I/O,)
	Poor scalability
	Load inbalance
V	Other (please specify)
Which	other problems?
_	The scalability of the Instructions Per Cycle has an unexpected behaviour.
	The analysis gives us a more detailed comprehension of the MPI communication patterns, compared with
	revious analysis. The analysis highlighted a good load balance.
	To vious analysis. The analysis ingring near a good load salarise.
* 7. Hov	w much effort was required from you to complete this Performance Assessment? (rough estimate of
	w much effort was required from you to complete this Performance Assessment? (rough estimate of n days/months)
perso	n days/months)
perso	
perso	n days/months)
persol 1	n days/months)
person 1 * 8. Did	n days/months) 5 days
person 1 * 8. Did	n days/months) 5 days POP fulfil your expectations?
person 1 * 8. Did	n days/months) 5 days POP fulfil your expectations? Entirely Partly Not enough Not at all
* 8. Did	POP fulfil your expectations? Entirely Partly Not enough Not at all erall, are you satisfied with this assessment?
* 8. Did	n days/months) 5 days POP fulfil your expectations? Entirely Partly Not enough Not at all
* 8. Did	POP fulfil your expectations? Entirely Partly Not enough Not at all erall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied
* 8. Did * 9. Ove * 10. Ar	POP fulfil your expectations? Entirely Partly Not enough Not at all erall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied er you happy for POP to publish the results of the Performance Assessment?
* 8. Did * 9. Ove * 10. Ar	POP fulfil your expectations? Entirely Partly Not enough Not at all erall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied er you happy for POP to publish the results of the Performance Assessment? You will be able to review any article before it is published.
* 8. Did * 9. Ove * 10. Ar	POP fulfil your expectations? Entirely Partly Not enough Not at all erall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied er you happy for POP to publish the results of the Performance Assessment?
* 8. Did * 9. Ove * 10. Ar Note:	POP fulfil your expectations? Entirely Partly Not enough Not at all erall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied er you happy for POP to publish the results of the Performance Assessment? You will be able to review any article before it is published.

	If possible, participation to the article.
	Would you be interested in receiving any training? Yes No
Whi	ch kind of training does your team need?
	The use of the profiler Extrae. A better understanding of the OpenFOAM c++ libraries, especially their parallel structure.
refa	Are you interested in a Proof-of-Concept service? (to better understand how your application can be ctored to address some of the issues found in the Performance Assessment) Yes
(No, I have got enough information
prop	Do you have a plan to modify your code (taking into account the recommendations that have been bosed)? Yes Not yet No, we don't plan to modify our code
(Do you have other applications for which a Performance Assessment would be useful? Yes No
serv	Based on this experience, would your organisation be prepared to pay for a Performance Assessment rice in the future? (After the end of the European Commission funded POP project.) Yes Not sure No
Cou	ld you say why?
	Would you recommend the POP service to your colleagues? Yes Possibly No

Contact

Contribution ID: c447099a-8074-479f-8316-1fc8882250a2

Date: 01/04/2020 13:55:32



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

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* 1. Report Reference Identifier

POP2 AR_nnn (Indicated on the front page of the Performance Assessment Report)

POP_AR_041

* 2. Application name

HemeLB(SNG)

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

0	Very efficiently
	Rather efficiently (no major problem)
0	Rather difficult (e.g. unreasonable delay, unexpected constraints,)
	Poorly conducted
* 5. Hov	v did you find the Performance Assessment Report?
_	Clear and easy to understand
0	Somewhat difficult to understand
0	Not at all clear
*6 Did	the recommendations just confirm what you knew from a previous analysis or by experience?
	Yes
0	No, I didn't suspect some of the problems revealed by this assessment
0	
	No, because I had no idea about possible problems
Which	problems were unexpected?
VVIIICII	problems were unexpected?
	Inefficient use of simultaneous threads
	Lack of (or inefficient) use of vectorization
	Inefficient use of memory
	Inefficient communications (MPI, I/O,)
	Poor scalability
√	Load inbalance
V	Other (please specify)
Which	other problems?
	other problems? lardware issues on specific nodes of SuperMUC-NG.
Н	lardware issues on specific nodes of SuperMUC-NG.
* 7. Hov	lardware issues on specific nodes of SuperMUC-NG. v much effort was required from you to complete this Performance Assessment? (rough estimate of
* 7. Hov	lardware issues on specific nodes of SuperMUC-NG.
* 7. Hov persor	lardware issues on specific nodes of SuperMUC-NG. v much effort was required from you to complete this Performance Assessment? (rough estimate of
* 7. Hov persor	lardware issues on specific nodes of SuperMUC-NG. v much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months)
* 7. How persor	lardware issues on specific nodes of SuperMUC-NG. v much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) linimal - 5-10 person days? (n.b. survey responder not involved in initial stages)
* 7. Hov persor	lardware issues on specific nodes of SuperMUC-NG. v much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) linimal - 5-10 person days? (n.b. survey responder not involved in initial stages) POP fulfil your expectations?
* 7. Hov persor	lardware issues on specific nodes of SuperMUC-NG. v much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) linimal - 5-10 person days? (n.b. survey responder not involved in initial stages)
* 7. Hov persor	lardware issues on specific nodes of SuperMUC-NG. v much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) linimal - 5-10 person days? (n.b. survey responder not involved in initial stages) POP fulfil your expectations?
* 7. How persor	lardware issues on specific nodes of SuperMUC-NG. v much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) linimal - 5-10 person days? (n.b. survey responder not involved in initial stages) POP fulfil your expectations?
* 7. How person N * 8. Did * 9. Ove	lardware issues on specific nodes of SuperMUC-NG. v much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) finimal - 5-10 person days? (n.b. survey responder not involved in initial stages) POP fulfil your expectations? Entirely Partly Not enough Not at all
* 7. How person N * 8. Did * 9. Ove	lardware issues on specific nodes of SuperMUC-NG. In much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) Initial - 5-10 person days? (n.b. survey responder not involved in initial stages) POP fulfil your expectations? Entirely Partly Not enough Not at all erall, are you satisfied with this assessment?
* 7. How persor M * 8. Did * 9. Ove	v much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) finimal - 5-10 person days? (n.b. survey responder not involved in initial stages) POP fulfil your expectations? Entirely Partly Not enough Not at all erall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied
* 7. How person N * 8. Did * 9. Ove	lardware issues on specific nodes of SuperMUC-NG. In much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) Initial - 5-10 person days? (n.b. survey responder not involved in initial stages) POP fulfil your expectations? Entirely Partly Not enough Not at all erall, are you satisfied with this assessment?
* 7. How persor * 8. Did * 9. Ove * 10. Are Note:	lardware issues on specific nodes of SuperMUC-NG. In much effort was required from you to complete this Performance Assessment? (rough estimate of a days/months) Inimal - 5-10 person days? (n.b. survey responder not involved in initial stages) POP fulfil your expectations? Entirely Partly Not enough Not at all Perall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied Por Not Satisfied Por POP to publish the results of the Performance Assessment?
* 7. How persor * 8. Did * 9. Ove * 10. Are Note:	lardware issues on specific nodes of SuperMUC-NG. In days/months) In days/months) In days/months) POP fulfil your expectations? Entirely Partly Not enough Not at all erall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied Pop to publish the results of the Performance Assessment? You will be able to review any article before it is published.
* 7. How persor * 8. Did * 9. Ove * 10. Are Note:	lardware issues on specific nodes of SuperMUC-NG. In days/months) In days/months) In days/months) POP fulfil your expectations? Entirely Partly Not enough Not at all erall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied Pop to publish the results of the Performance Assessment? You will be able to review any article before it is published.

 * 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Yes
No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)?
O Yes
Not yet
No, we don't plan to modify our code
* 14. Do you have other applications for which a Performance Assessment would be useful? O Yes
O No
How many and when do you plan to get them assessed?
Potentially two relating to HemeLB, not sure when they will be submitted for assessment.
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) © Yes Not sure No
Could you say why?
* 16. Would you recommend the POP service to your colleagues? Yes Possibly No
Thank you very much.
Contact

Contribution ID: 590f55fa-ed36-4627-a343-3bf2e85d838c

Date: 19/07/2020 16:09:16



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

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* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR 044

* 2. Application name

JULES

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

* 4. How was this Performance Assessment carried out?
Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
Could you say why?
someone else from POP started the project, and then left POP.
* 5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
Could you say why?
It was much easier to understand when presented orally than it was as a written-only report.
* 6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
O Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
Which problems were unexpected?
Inefficient use of simultaneous threads
Lack of (or inefficient) use of vectorization
☐ Inefficient use of memory
✓ Inefficient communications (MPI, I/O,)
Poor scalability
Load imbalance
Other (please specify)
* 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of
person days/months)
maybe 5 days of my work, over the course of the project.
*8. Did POP fulfil your expectations?
Sentirely Partly Not enough Not at all Sentirely Partly Not enough Not at all
Any suggestions for improvement of the Performance Assessment?

*9. Overall, are you satisfied with this assessment? © Very satisfied © Satisfied © Partly satisfied © Not Satisfied
Could you say why?
* 10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Performance Assessment? Note: You will be able to review any article before it is published. No
*11. Would you be interested in receiving any training? © Yes No
 * 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Yes No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)? O Yes Not yet No, we don't plan to modify our code
 * 14. Do you have other applications for which a Performance Assessment would be useful? Yes No
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes Not sure No
Could you say why?
*16. Would you recommend the POP service to your colleagues? O Yes Possibly No

Could you say why?						

Contact

Contribution ID: a7ee7576-f290-4bcc-a0a5-a855c8a964be

Date: 27/02/2020 12:26:00



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report	Reference	Identifier
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POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

824080

*2. Application name

Forcite

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

* Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
* 5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
Could you say why?
* 6. Did the recommendations just confirm what you knew from a previous analysis or by experience? © Yes
No, I didn't suspect some of the problems revealed by this assessment
No, I didn't suspect some of the problems revealed by this assessment No, because I had no idea about possible problems
No, because that no idea about possible problems
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months)
2 days
* 8. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
Any suggestions for improvement of the Performance Assessment?
7 m. y daggedadne for improvement or the continuous recognition.
* 9. Overall, are you satisfied with this assessment?
Very satisfied Satisfied Partly satisfied Not Satisfied
* 10. Are you happy for POP to publish the results of the Performance Assessment?
Note: You will be able to review any article before it is published.
 Yes Yes, under certain conditions No
* 11. Would you be interested in receiving any training?
○ Yes ○ No ○ No
+12. Are you interested in a Proof of Concept conject /to better understand how your application can be
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment)
_ ·
Yes

* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed) ?
O Yes
Not yet
No, we don't plan to modify our code
* 14. Do you have other applications for which a Performance Assessment would be useful?
O Yes
No
*15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes Not sure No
Could you say why?
*16. Would you recommend the POP service to your colleagues? Yes Possibly No

Thank you very much.

No, I have got enough information

Contact

Contribution ID: a79795ba-1e27-4096-a324-8012049f22ee

Date: 08/04/2020 12:42:15



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR_nnn (Indicated on the front page of the Performance Assessment Report)

POP_AR_047

* 2. Application name

TerrSysMP

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

₩ ٧€	ry efficiently
O Ra	ther efficiently (no major problem)
O Ra	ther difficult (e.g. unreasonable delay, unexpected constraints,)
© Po	orly conducted
*5 How di	d you find the Performance Assessment Report?
_	·
_	ear and easy to understand
_	mewhat difficult to understand
◎ No	t at all clear
0. 51.1.1	
	recommendations just confirm what you knew from a previous analysis or by experience?
O Ye	S
No	, I didn't suspect some of the problems revealed by this assessment
O No	, because I had no idea about possible problems
Which pro	oblems were unexpected?
Ine	fficient use of simultaneous threads
La	ck of (or inefficient) use of vectorization
Ine	ifficient use of memory
Ine	efficient communications (MPI, I/O,)
	or scalability
	ad inbalance
	ner (please specify)
* 7. How m	uch effort was required from you to complete this Performance Assessment? (rough estimate of
* 7. How m	
* 7. How m	uch effort was required from you to complete this Performance Assessment? (rough estimate of
*7. How m	uch effort was required from you to complete this Performance Assessment? (rough estimate of
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* 7. How m person da 5 * 8. Did PC	uch effort was required from you to complete this Performance Assessment? (rough estimate of ays/months) P fulfil your expectations? tirely Partly Not enough Not at all
* 7. How m person da 5 * 8. Did PC © En	uch effort was required from you to complete this Performance Assessment? (rough estimate of ays/months) P fulfil your expectations? tirely Partly Not enough Not at all , are you satisfied with this assessment?
* 7. How m person da 5 * 8. Did PC © En	uch effort was required from you to complete this Performance Assessment? (rough estimate of ays/months) P fulfil your expectations? tirely Partly Not enough Not at all
* 7. How m person da 5 * 8. Did PC • En * 9. Overal	uch effort was required from you to complete this Performance Assessment? (rough estimate of ays/months) P fulfil your expectations? tirely Partly Not enough Not at all , are you satisfied with this assessment? ry satisfied Satisfied Partly satisfied Not Satisfied
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* 7. How me person do 5 * 8. Did PC • En * 9. Overal • Ve * 10. Are ye Note: You	uch effort was required from you to complete this Performance Assessment? (rough estimate of ays/months) P fulfil your expectations? tirely Partly Not enough Not at all , are you satisfied with this assessment? ry satisfied Partly satisfied Not Satisfied but happy for POP to publish the results of the Performance Assessment? will be able to review any article before it is published.
* 7. How me person do 5 * 8. Did PC • En * 9. Overal • Ve * 10. Are ye Note: You	uch effort was required from you to complete this Performance Assessment? (rough estimate of hys/months) P fulfil your expectations? tirely Partly Not enough Not at all , are you satisfied with this assessment? ry satisfied Partly satisfied Not Satisfied but happy for POP to publish the results of the Performance Assessment?
* 7. How m person da 5 * 8. Did PC	uch effort was required from you to complete this Performance Assessment? (rough estimate of ays/months) P fulfil your expectations? tirely Partly Not enough Not at all , are you satisfied with this assessment? ry satisfied Partly satisfied Not Satisfied but happy for POP to publish the results of the Performance Assessment? will be able to review any article before it is published. S Yes, under certain conditions No
* 7. How me person do 5 * 8. Did PC • En * 9. Overal • Ve * 10. Are ye Note: You • Ye * 11. Would	uch effort was required from you to complete this Performance Assessment? (rough estimate of ays/months) P fulfil your expectations? tirely Partly Not enough Not at all , are you satisfied with this assessment? ry satisfied Satisfied Partly satisfied Not Satisfied but happy for POP to publish the results of the Performance Assessment? will be able to review any article before it is published. S Yes, under certain conditions No
* 7. How me person do 5 * 8. Did PC • En * 9. Overal • Ve * 10. Are ye Note: You • Ye * 11. Would	uch effort was required from you to complete this Performance Assessment? (rough estimate of ays/months) P fulfil your expectations? tirely Partly Not enough Not at all , are you satisfied with this assessment? ry satisfied Partly satisfied Not Satisfied but happy for POP to publish the results of the Performance Assessment? will be able to review any article before it is published. S Yes, under certain conditions No
* 7. How me person do 5 * 8. Did PC • En * 9. Overal • Ve * 10. Are ye Note: You • Ye * 11. Would	uch effort was required from you to complete this Performance Assessment? (rough estimate of ays/months) P fulfil your expectations? tirely Partly Not enough Not at all , are you satisfied with this assessment? ry satisfied Satisfied Partly satisfied Not Satisfied but happy for POP to publish the results of the Performance Assessment? will be able to review any article before it is published. S Yes, under certain conditions No
* 7. How me person do 5 * 8. Did PC • En * 9. Overal • Ve * 10. Are ye Note: You • Ye * 11. Would • Ye	uch effort was required from you to complete this Performance Assessment? (rough estimate of ays/months) P fulfil your expectations? tirely Partly Not enough Not at all , are you satisfied with this assessment? ry satisfied Satisfied Partly satisfied Not Satisfied but happy for POP to publish the results of the Performance Assessment? will be able to review any article before it is published. S Yes, under certain conditions No
* 7. How me person do 5 * 8. Did PC • En * 9. Overal • Ve * 10. Are ye Note: You • Ye * 11. Would • Ye * 12. Are ye	uch effort was required from you to complete this Performance Assessment? (rough estimate of ays/months) P fulfil your expectations? tirely Partly Not enough Not at all , are you satisfied with this assessment? ry satisfied Partly satisfied Not Satisfied but happy for POP to publish the results of the Performance Assessment? will be able to review any article before it is published. See Yes, under certain conditions No If you be interested in receiving any training? See No
* 7. How me person do 5 * 8. Did PC • En * 9. Overal • Ve * 10. Are ye Note: You • Ye * 11. Would • Ye * 12. Are ye	uch effort was required from you to complete this Performance Assessment? (rough estimate of hys/months) P fulfil your expectations? tirely Partly Not enough Not at all , are you satisfied with this assessment? ry satisfied Partly satisfied Not Satisfied Not Satisfied Du happy for POP to publish the results of the Performance Assessment? will be able to review any article before it is published. S Yes, under certain conditions No d you be interested in receiving any training? S No Du interested in a Proof-of-Concept service? (to better understand how your application can be d to address some of the issues found in the Performance Assessment)

No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed) ? © Yes
Not yet
No, we don't plan to modify our code
 * 14. Do you have other applications for which a Performance Assessment would be useful? Yes No
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes O Not sure No
Could you say why?
I left my previous position.
* 16. Would you recommend the POP service to your colleagues?

pop-surveys@teratec.eu

Thank you very much.

Contribution ID: 5696c7fd-009b-47b9-8361-4a6dcb5b88b5

Date: 03/07/2020 15:22:22



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

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* 1. Report Reference Identifier

POP2_AR_nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR 048

2. Application name

HYDRO AS-2D

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

*4. How was this Performance Assessment carried out?
Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
*5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
*6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
O Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
Which problems were unexpected?
Inefficient use of simultaneous threads
Lack of (or inefficient) use of vectorization
Inefficient use of memory
✓ Inefficient communications (MPI, I/O,)
Poor scalability
Load inbalance
Other (please specify)
* 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of
person days/months)
3
O Did DOD fulfil was a secretation of
*8. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
*9. Overall, are you satisfied with this assessment?
Very satisfied Satisfied Partly satisfied Not Satisfied
* 10. Are you happy for POP to publish the results of the Performance Assessment?
Note: You will be able to review any article before it is published.
YesYes, under certain conditionsNo
* 11. Mould you be interested in receiving any training?
*11. Would you be interested in receiving any training?
Yes No
Which kind of training does your toom pood?
Which kind of training does your team need?

\ \	What do you offer? :-)
	re you interested in a Proof-of-Concept service? (to better understand how your application can be tored to address some of the issues found in the Performance Assessment)
0	Yes Yes
•	No, I have got enough information
propo	o you have a plan to modify your code (taking into account the recommendations that have been osed)?
_	Yes
©	Not yet
	No, we don't plan to modify our code
	o you have other applications for which a Performance Assessment would be useful? Yes
0) No
How	many and when do you plan to get them assessed?
	1
servi	ased on this experience, would your organisation be prepared to pay for a Performance Assessment ce in the future? (After the end of the European Commission funded POP project.) Yes Not sure No
Coulc	d you say why?
	Depends on amount of money.
	Vould you recommend the POP service to your colleagues? Yes Possibly No
Thar	nk you very much.

Contribution ID: 6aa16e83-71a4-45c0-8634-2b0f3bcbe064

Date: 28/04/2020 15:29:16



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

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* 1. Report Reference Identifier

POP2 AR_nnn (Indicated on the front page of the Performance Assessment Report)

POP_AR_051

*2. Application name

POP2_AR_051 for OpenFOAM(TotalSIM)

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
Could you say why?
Unfortunately Bo had issues trying to get Extrae running on the AMD-based cluster
*5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
*6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months)
10 man-days spread over the study duration
*8. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
Any suggestions for improvement of the Performance Assessment?
Some issues where AMD architecture didn't support much output data so limited analysis possible. Highlighted areas of the mpi comms that were taking significant time but we have insufficient knowledge and experience to convert that result into a performance improvement.
*9. Overall, are you satisfied with this assessment?
 Very satisfied Satisfied Partly satisfied Not Satisfied
* 10. Are you happy for POP to publish the results of the Performance Assessment?
Note: You will be able to review any article before it is published.
 Yes Yes, under certain conditions No
*11. Would you be interested in receiving any training?
Yes No
Which kind of training does your team need?

*12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Output Description:
No, I have got enough information
*13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)?
O Yes
Not yet
No, we don't plan to modify our code
* 14. Do you have other applications for which a Performance Assessment would be useful? © Yes • No
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) Output Description:
Could you say why?
Would need to be more cost effective than just increasing cluster resource.
* 16. Would you recommend the POP service to your colleagues?
To. Would you recommend the FOF Service to your colleagues:

Open mpi + being able use the perf benchmarking tools (Extrae / Paraver) ourselves for future analysis that

Thank you very much.

Yes
Possibly
No

we can repeat in-house.

Contact

Contribution ID: ff7f7acf-ecdd-44c6-86e0-15004cbd3148

Date: 27/04/2020 11:10:46



POP Performance Assessment Evaluation

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* 1. Report Reference Identifier

POP2 AR_nnn (Indicated on the front page of the Performance Assessment Report)

POP_AR_052

*2. Application name

VeloxChem

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert
- 4. How was this Performance Assessment carried out?

•	Very efficiently
(Rather efficiently (no major problem)
(Rather difficult (e.g. unreasonable delay, unexpected constraints,)
(Poorly conducted
*5 H	ow did you find the Performance Assessment Report?
	Clear and easy to understand
(·
	Somewhat difficult to understand
(Not at all clear
	d the recommendations just confirm what you knew from a previous analysis or by experience?
	Yes
	No, I didn't suspect some of the problems revealed by this assessment
(No, because I had no idea about possible problems
Whi	ch problems were unexpected?
	Inefficient use of simultaneous threads
[Lack of (or inefficient) use of vectorization
[Inefficient use of memory
[Inefficient communications (MPI, I/O,)
[Poor scalability
	Load inbalance
[Load inbalance Other (please specify)
[Load inbalance Other (please specify)
[Other (please specify)
* 7. H	Other (please specify) ow much effort was required from you to complete this Performance Assessment? (rough estimate of
* 7. H	Other (please specify)
* 7. H	Other (please specify) ow much effort was required from you to complete this Performance Assessment? (rough estimate of
* 7. H	Other (please specify) ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months)
* 7. H	Other (please specify) ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) 5 days
*7. H pers	Other (please specify) by much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) 5 days d POP fulfil your expectations?
*7. H pers	Other (please specify) ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) 5 days
* 7. H pers	Other (please specify) ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) 5 days d POP fulfil your expectations? Entirely Partly Not enough Not at all
* 7. H pers	Other (please specify) by much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) 5 days d POP fulfil your expectations?
* 7. H pers	Other (please specify) ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) 5 days d POP fulfil your expectations? Entirely Partly Not enough Not at all
* 7. H pers	Other (please specify) ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) 5 days d POP fulfil your expectations? Entirely Partly Not enough Not at all verall, are you satisfied with this assessment?
* 7. H pers	Other (please specify) ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) 5 days d POP fulfil your expectations? Entirely Partly Not enough Not at all verall, are you satisfied with this assessment?
* 7. H pers	Other (please specify) ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) 5 days d POP fulfil your expectations? Entirely Partly Not enough Not at all verall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied
* 7. H pers * 8. D * 9. C	Other (please specify) ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) 5 days d POP fulfil your expectations? Entirely Partly Not enough Not at all verall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied Are you happy for POP to publish the results of the Performance Assessment?
* 7. H pers * 8. D * 9. C	Other (please specify) ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) 5 days d POP fulfil your expectations? Entirely Partly Not enough Not at all verall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied Are you happy for POP to publish the results of the Performance Assessment? e: You will be able to review any article before it is published.
* 7. H pers * 8. D * 9. C	Other (please specify) ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) 5 days d POP fulfil your expectations? Entirely Partly Not enough Not at all verall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied Are you happy for POP to publish the results of the Performance Assessment? Expected: Expec
* 7. H pers * 8. D * 9. C * 10 No	Other (please specify) ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) 5 days d POP fulfil your expectations? Entirely Partly Not enough Not at all verall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied Are you happy for POP to publish the results of the Performance Assessment? e: You will be able to review any article before it is published. Yes Yes, under certain conditions No Would you be interested in receiving any training?
* 7. H pers * 8. D * 9. C * 10 No	Other (please specify) ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) 5 days d POP fulfil your expectations? Entirely Partly Not enough Not at all verall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied Are you happy for POP to publish the results of the Performance Assessment? Expected: Expec
*7. H pers *8. D *9. C *10 *11	Other (please specify) ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) 5 days d POP fulfil your expectations? Entirely Partly Not enough Not at all verall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied Are you happy for POP to publish the results of the Performance Assessment? e: You will be able to review any article before it is published. Yes Yes, under certain conditions No Would you be interested in receiving any training? Yes No
*7. H pers *8. D *9. C *10 *11	Other (please specify) ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) 5 days d POP fulfil your expectations? Entirely Partly Not enough Not at all verall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied Are you happy for POP to publish the results of the Performance Assessment? e: You will be able to review any article before it is published. Yes Yes, under certain conditions No Would you be interested in receiving any training?
*7. H pers *8. D *9. C *10 *11	Other (please specify) ow much effort was required from you to complete this Performance Assessment? (rough estimate of on days/months) 5 days d POP fulfil your expectations? Entirely Partly Not enough Not at all verall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied Are you happy for POP to publish the results of the Performance Assessment? e: You will be able to review any article before it is published. Yes Yes, under certain conditions No Would you be interested in receiving any training? Yes No

 * 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Yes
No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed) ?
Yes
 Not yet No, we don't plan to modify our code
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated? Please enter a date in the following format (DD/MM/YYYY)
30/06/2020
 * 14. Do you have other applications for which a Performance Assessment would be useful? Yes No How many and when do you plan to get them assessed?
Gator. In fall of 2020 depends on development progress.
*15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes Not sure No Could you say why?
We are academic institution and it would depend on funding situation/restriction associated with funding. However, we probably include funding for such services into budget of our future grant applications.
* 16. Would you recommend the POP service to your colleagues? • Yes Possibly No Thank you very much.

Contribution ID: 13cd1281-a49d-4cd8-bde9-02788926ac80

Date: 08/09/2020 14:12:02



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

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*	1.	Report	Reference	Identifier
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POP2_AR_nnn (Indicated on the front page of the Performance Assessment Report)

053

* 2. Application name

AVBP

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

*4. How was this Performance Assessment carried out?
Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
*5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
*6. Did the recommendations just confirm what you knew from a previous analysis or by experience? © Yes
No, I didn't suspect some of the problems revealed by this assessment
No, I didn't suspect some of the problems revealed by this assessment No, because I had no idea about possible problems
No, because i riad no idea about possible problems
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months)
2 days to prepare the data and the code and the administrative aspects
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment?
Note: You will be able to review any article before it is published.
*11. Would you be interested in receiving any training?
Which kind of training does your team need?
Extrae
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) O Yes No, I have got enough information
*13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)?

Yes
Not yet
No, we don't plan to modify our code
*14. Do you have other applications for which a Performance Assessment would be useful?
Yes
O No
How many and when do you plan to get them assessed?
2 codes early 2021
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes Not sure No
Could you say why?
requires further success stories
*16. Would you recommend the POP service to your colleagues? Yes Possibly No
Thank you very much.

Contribution ID: c3c2c90e-e4ad-4069-aa31-489cc8f615b7

Date: 09/04/2021 13:54:40



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

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* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP AR 054

* 2. Application name

YALES2

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

Very efficiently	
Rather efficiently (no major problem)	
Rather difficult (e.g. unreasonable delay, unexpected constraints,)	
Poorly conducted	
· · · · · · · · · · · · · · · · · · ·	
*5. How did you find the Performance Assessment Report?	
Clear and easy to understand	
Somewhat difficult to understand	
Not at all clear	
* 6. Did the recommendations just confirm what you knew from a previous analysis or by experience?	
Yes	
No, I didn't suspect some of the problems revealed by this assessment	
No, because I had no idea about possible problems	
Which problems were unexpected?	
Inefficient use of simultaneous threads	
Lack of (or inefficient) use of vectorization	
☐ Inefficient use of memory	
✓ Inefficient communications (MPI, I/O,)	
Poor scalability	
Load imbalance	
Other (please specify)	
Cities (piease specify)	
*7 How much effort was required from you to complete this Performance Assessment? (rough estimate of	
* 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months)	
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refactored to address some of the issues found in the Performance Assessment)

No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed) ?
Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated?
Please enter a date in the following format (DD/MM/YYYY)
6 months
* 14. Do you have other applications for which a Performance Assessment would be useful?
Yes
O No
Many many and other decreased as the matthews are also do
How many and when do you plan to get them assessed?
Same application but different part of the code. Already asked in CoEC H2020 project
*15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment
service in the future? (After the end of the European Commission funded POP project.)
Yes Not sure No
Could you say why?
Depends on the cost and if this cost can be publicly funded.
* 16. Would you recommend the POP service to your colleagues?
Yes Possibly No
Thank you very much.
Contact

Yes

Contribution ID: 821d73c0-845c-4004-86c3-462570f8a300

Date: 30/06/2020 19:56:23



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

*	1.	Report	Reference	Identifier
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POP2_AR_nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR 060

* 2. Application name

PORTA

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
*5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
*6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
O Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
Which problems were unexpected?
Inefficient use of simultaneous threads
Lack of (or inefficient) use of vectorization
Inefficient use of memory
☐ Inefficient communications (MPI, I/O,)
Poor scalability
Load inbalance
Other (please specify)
Which other problems?
The report helped identify a problem with replicated code in parallel, in a section of the code of which I was
not aware of.
. 7 H
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of
* 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months)
person days/months)
person days/months)
person days/months) About two person days * 8. Did POP fulfil your expectations?
person days/months) About two person days
person days/months) About two person days * 8. Did POP fulfil your expectations? © Entirely © Partly © Not enough © Not at all
person days/months) About two person days * 8. Did POP fulfil your expectations? © Entirely © Partly © Not enough © Not at all * 9. Overall, are you satisfied with this assessment?
person days/months) About two person days * 8. Did POP fulfil your expectations? © Entirely © Partly © Not enough © Not at all
 About two person days *8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied
About two person days * 8. Did POP fulfil your expectations? © Entirely Partly Not enough Not at all * 9. Overall, are you satisfied with this assessment? © Very satisfied Partly satisfied Not Satisfied * 10. Are you happy for POP to publish the results of the Performance Assessment?
 About two person days *8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published.
About two person days * 8. Did POP fulfil your expectations? © Entirely Partly Not enough Not at all * 9. Overall, are you satisfied with this assessment? © Very satisfied Partly satisfied Not Satisfied * 10. Are you happy for POP to publish the results of the Performance Assessment?

Yes No
Which kind of training does your team need?
It would be nice to get some training on Paraver, so that we can perform similar reports in the future ourselves
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) O Yes No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)? O Yes Not yet No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated? Please enter a date in the following format (DD/MM/YYYYY)
15/09/2020
* 14. Do you have other applications for which a Performance Assessment would be useful? O Yes No How many and when do you plan to get them assessed?
One hybrid (MPI+OpenMP) that we are developing. But it still needs some more work before ready for assessment. Perhaps around November'20.
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes Not sure No
Could you say why?
I would definitely consider it useful and would be ready to pay for the service from our project, but not sure if administratively would be easy/possible.
* 16. Would you recommend the POP service to your colleagues? Yes Possibly No

Thank you very much.

Contact

Contribution ID: 354d0d47-3354-41a0-a9f2-70fc741bb52c

Date: 16/02/2021 12:21:57



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR 061

* 2. Application name

OpenFOAM

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

*4. How was this Performance Assessment carried out?
Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
*5. How did you find the Performance Assessment Report?
Clear and easy to understand
 Somewhat difficult to understand
Not at all clear
*6. Did the recommendations just confirm what you knew from a previous analysis or by experience? Output Description:
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
* 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months)
5 days
 *8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No *11. Would you be interested in receiving any training? Yes No
Which kind of training does your team need?
MPI HPC Optimisation
 * 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Yes No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed) ?

(O Yes
(Not yet
(No, we don't plan to modify our code
* 14.	Do you have other applications for which a Performance Assessment would be useful?
(O Yes
(No
* 15.	Based on this experience, would your organisation be prepared to pay for a Performance Assessment
serv	vice in the future? (After the end of the European Commission funded POP project.)
(○ Yes ○ Not sure ○ No
Cou	ıld you say why?
	we are SME
* 16. '	Would you recommend the POP service to your colleagues?
(Yes Possibly No

Thank you very much.

Contact

Contribution ID: 25af46ce-e317-45f0-acf2-4aa2bdd9a1fe

Date: 28/01/2021 16:04:30



POP Performance Assessment Evaluation

Fields	marked with *	are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

*	1.	Report	Reference	Identifier
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POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

pop2_ar_062

* 2. Application name

Turtle

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

*4. How was this Performance Assessment carried out?
Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
*5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
*6. Did the recommendations just confirm what you knew from a previous analysis or by experience? • Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months)
I had to recompile the code several times, with different libraries. All in all it took about 2-3 days work
*8. Did POP fulfil your expectations? • Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? • Very satisfied Satisfied Partly satisfied Not Satisfied
* 10. Are you happy for POP to publish the results of the Performance Assessment?
Note: You will be able to review any article before it is published.
Tes Tes, under certain conditions Two
*11. Would you be interested in receiving any training?
Yes No
Which kind of training does your team need?
profiling
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Yes No, I have got enough information
*13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)?

• Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated?
Please enter a date in the following format (DD/MM/YYYY)
That is very difficult to say
* 14. Do you have other applications for which a Performance Assessment would be useful?
O Yes
No
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.)
○ Yes ○ Not sure ○ No
Osald var assembly 0
Could you say why?
We do not have the money for it
*16. Would you recommend the POP service to your colleagues?
Yes Possibly No
2 100 2 1 0001019
Thank you very much.
mank you very much.

Contribution ID: 0719c3db-c42b-4d35-9af9-c702831e94e2

Date: 29/07/2020 18:00:04



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1.	Report	Reference	Identifier
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POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR 066

* 2. Application name

ParMmg

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

	ow was this Performance Assessment carried out?
	Very efficiently
	Rather efficiently (no major problem)
	Rather difficult (e.g. unreasonable delay, unexpected constraints,)
	Poorly conducted
	Foony conducted
* 5. F	ow did you find the Performance Assessment Report?
	Clear and easy to understand
	Somewhat difficult to understand
	Not at all clear
* 6. E	id the recommendations just confirm what you knew from a previous analysis or by experience?
	○ Yes
	No, I didn't suspect some of the problems revealed by this assessment
	No, because I had no idea about possible problems
Wh	ch problems were unexpected?
	☐ Inefficient use of simultaneous threads
	Lack of (or inefficient) use of vectorization
	Inefficient use of memory
	✓ Inefficient communications (MPI, I/O,)
	Poor scalability
	Load imbalance
	Other (please specify)
* 7. F	
	Other (please specify)
	Other (please specify) ow much effort was required from you to complete this Performance Assessment? (rough estimate of son days/months)
	Other (please specify) ow much effort was required from you to complete this Performance Assessment? (rough estimate of son days/months) Roughly less than 3 days (only administrative and technical setup, study and results discussion from our
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	Other (please specify) ow much effort was required from you to complete this Performance Assessment? (rough estimate of son days/months) Roughly less than 3 days (only administrative and technical setup, study and results discussion from our
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per	Other (please specify) ow much effort was required from you to complete this Performance Assessment? (rough estimate of son days/months) Roughly less than 3 days (only administrative and technical setup, study and results discussion from our side)
per	Other (please specify) ow much effort was required from you to complete this Performance Assessment? (rough estimate of son days/months) Roughly less than 3 days (only administrative and technical setup, study and results discussion from our side) id POP fulfil your expectations?
per:	Other (please specify) ow much effort was required from you to complete this Performance Assessment? (rough estimate of son days/months) Roughly less than 3 days (only administrative and technical setup, study and results discussion from our side) id POP fulfil your expectations? Entirely Partly Not enough Not at all
*8. E	Other (please specify) ow much effort was required from you to complete this Performance Assessment? (rough estimate of son days/months) Roughly less than 3 days (only administrative and technical setup, study and results discussion from our side) id POP fulfil your expectations? Entirely Partly Not enough Not at all everall, are you satisfied with this assessment?
*8. E	Other (please specify) ow much effort was required from you to complete this Performance Assessment? (rough estimate of son days/months) Roughly less than 3 days (only administrative and technical setup, study and results discussion from our side) id POP fulfil your expectations? Entirely Partly Not enough Not at all
*8. [Other (please specify) ow much effort was required from you to complete this Performance Assessment? (rough estimate of son days/months) Roughly less than 3 days (only administrative and technical setup, study and results discussion from our side) id POP fulfil your expectations? Entirely Partly Not enough Not at all overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied
*8. E	Other (please specify) ow much effort was required from you to complete this Performance Assessment? (rough estimate of son days/months) Roughly less than 3 days (only administrative and technical setup, study and results discussion from our side) id POP fulfil your expectations? id POP fulfil your expectations? id Pop fulfil your expectations? Very satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied Are you happy for POP to publish the results of the Performance Assessment?
* 8. E	Other (please specify) ow much effort was required from you to complete this Performance Assessment? (rough estimate of son days/months) Roughly less than 3 days (only administrative and technical setup, study and results discussion from our side) id POP fulfil your expectations? Entirely Partly Not enough Not at all overall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied Are you happy for POP to publish the results of the Performance Assessment? te: You will be able to review any article before it is published.
* 8. E	Other (please specify) ow much effort was required from you to complete this Performance Assessment? (rough estimate of son days/months) Roughly less than 3 days (only administrative and technical setup, study and results discussion from our side) id POP fulfil your expectations? Entirely Partly Not enough Not at all everall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied Are you happy for POP to publish the results of the Performance Assessment?
* 8. E	Other (please specify) ow much effort was required from you to complete this Performance Assessment? (rough estimate of son days/months) Roughly less than 3 days (only administrative and technical setup, study and results discussion from our side) id POP fulfil your expectations? id Por fulfil your expectations? Partly Not enough Not at all iverall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied Are you happy for POP to publish the results of the Performance Assessment? te: You will be able to review any article before it is published. Yes Yes, under certain conditions No
* 8. E	Other (please specify) ow much effort was required from you to complete this Performance Assessment? (rough estimate of son days/months) Roughly less than 3 days (only administrative and technical setup, study and results discussion from our side) id POP fulfil your expectations? Entirely Partly Not enough Not at all overall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied Are you happy for POP to publish the results of the Performance Assessment? te: You will be able to review any article before it is published.
* 8. E	Other (please specify) ow much effort was required from you to complete this Performance Assessment? (rough estimate of son days/months) Roughly less than 3 days (only administrative and technical setup, study and results discussion from our side) id POP fulfil your expectations? Entirely Partly Not enough Not at all overall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied Are you happy for POP to publish the results of the Performance Assessment? te: You will be able to review any article before it is published. Yes Yes, under certain conditions No er which conditions (in addition to the review of the article before publication)?
* 8. E	Other (please specify) ow much effort was required from you to complete this Performance Assessment? (rough estimate of son days/months) Roughly less than 3 days (only administrative and technical setup, study and results discussion from our side) id POP fulfil your expectations? id Por fulfil your expectations? Partly Not enough Not at all iverall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied Are you happy for POP to publish the results of the Performance Assessment? te: You will be able to review any article before it is published. Yes Yes, under certain conditions No

Yes No Which kind of training does your team need?
Training on parallel performance analysis models and tools would be interesting for a continuous assessment of our application.
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Output Performance Assessment No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)? Output Not yet No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated? Please enter a date in the following format (DD/MM/YYYYY)
31/12/2020
* 14. Do you have other applications for which a Performance Assessment would be useful? O Yes No
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes O Not sure O No
Could you say why?
Access to the Performance Assessment service would be strongly recommended from our side, but any budget consideration concerning our organization needs the authorization from our hierarchical superiors.
* 16. Would you recommend the POP service to your colleagues? O Yes Possibly No Thank you very much.
Thank you very much.

*11. Would you be interested in receiving any training?

Contribution ID: 853ff76f-9b35-410e-b79b-a04a44cc315b

Date: 27/08/2020 16:14:45



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

*	1.	Report	Reference	Identifier
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POP2_AR_nnn (Indicated on the front page of the Performance Assessment Report)

068

* 2. Application name

MHDG

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

*4. How was this Performance Assessment carried out?
Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
*5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
*6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
Which problems were unexpected?
Inefficient use of simultaneous threads
Lack of (or inefficient) use of vectorization
Inefficient use of memory
Inefficient communications (MPI, I/O,)
Poor scalability
Load imbalance
Other (please specify)
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months)
person days/months)
One month
*8. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
*9. Overall, are you satisfied with this assessment?
Very satisfied Satisfied Partly satisfied Not Satisfied
*10. Are you happy for POP to publish the results of the Performance Assessment?
Note: You will be able to review any article before it is published.
Yes Yes, under certain conditions No
*11. Would you be interested in receiving any training?
◯ Yes ⊙ No
40 A
*12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment)

Yes
No, I have got enough information
*13. Do you have a plan to modify your code (taking into account the recommendations that have been
proposed) ?
Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated?
Please enter a date in the following format (DD/MM/YYYY)
01/06/2021
. 44. De con bacca attaca analizationa forculaida a Deufenna ana Anna analizationa del la confulO
* 14. Do you have other applications for which a Performance Assessment would be useful?
O Yes
No
45 Beeck will be a strong with the second test of t
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment
service in the future? (After the end of the European Commission funded POP project.)
○ Yes ○ Not sure ○ No
Could you say why?
It depends on the available credits
*16. Would you recommend the POP service to your colleagues?
Yes Possibly No
Thank you very much.

Contribution ID: 60b65c31-9f06-4ac7-ae46-e010300ce011

Date: 26/08/2020 13:30:54



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

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* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR 408

* 2. Application name

Artemis Assessment

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

* 4. How was this Performance Assessment carried out?
Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
*5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
* 6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of
person days/months)
3 d
* 8. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
* 9. Overall, are you satisfied with this assessment?
 *9. Overall, are you satisfied with this assessment? ● Very satisfied Satisfied Partly satisfied Not Satisfied
 * 9. Overall, are you satisfied with this assessment? • Very satisfied
 * 9. Overall, are you satisfied with this assessment? Overy satisfied Partly satisfied Not Satisfied * 10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published.
 * 9. Overall, are you satisfied with this assessment? • Very satisfied
 * 9. Overall, are you satisfied with this assessment? Overy satisfied Satisfied Partly satisfied Not Satisfied * 10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No
 * 9. Overall, are you satisfied with this assessment? Overy satisfied Partly satisfied Not Satisfied * 10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published.
 * 9. Overall, are you satisfied with this assessment? Overy satisfied Satisfied Partly satisfied Not Satisfied * 10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No
 * 9. Overall, are you satisfied with this assessment? • Very satisfied Partly satisfied Not Satisfied * 10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. • Yes Yes, under certain conditions No Under which conditions (in addition to the review of the article before publication)?
 * 9. Overall, are you satisfied with this assessment? • Very satisfied Partly satisfied Not Satisfied * 10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. • Yes Yes, under certain conditions No Under which conditions (in addition to the review of the article before publication)?
 * 9. Overall, are you satisfied with this assessment? • Very satisfied Partly satisfied Not Satisfied * 10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. • Yes Yes, under certain conditions No Under which conditions (in addition to the review of the article before publication)?
 * 9. Overall, are you satisfied with this assessment? • Very satisfied Partly satisfied Not Satisfied * 10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. • Yes Yes, under certain conditions No Under which conditions (in addition to the review of the article before publication)? My approval
 * 9. Overall, are you satisfied with this assessment? ② Very satisfied ② Satisfied ② Partly satisfied ② Not Satisfied * 10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. ② Yes ③ Yes, under certain conditions ② No Under which conditions (in addition to the review of the article before publication)? My approval * 11. Would you be interested in receiving any training?
 * 9. Overall, are you satisfied with this assessment? ② Very satisfied ② Satisfied ② Partly satisfied ② Not Satisfied * 10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. ② Yes ③ Yes, under certain conditions ② No Under which conditions (in addition to the review of the article before publication)? My approval * 11. Would you be interested in receiving any training?
*9. Overall, are you satisfied with this assessment? ② Very satisfied ② Satisfied ② Partly satisfied ② Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. ③ Yes ③ Yes, under certain conditions ③ No Under which conditions (in addition to the review of the article before publication)? My approval *11. Would you be interested in receiving any training? ③ Yes ③ No
 • 9. Overall, are you satisfied with this assessment? • Very satisfied
*9. Overall, are you satisfied with this assessment? • Very satisfied • Satisfied • Partly satisfied • Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. • Yes • Yes, under certain conditions • No Under which conditions (in addition to the review of the article before publication)? My approval *11. Would you be interested in receiving any training? • Yes • No *12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment)

proposed) ?
Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated?
Please enter a date in the following format (DD/MM/YYYYY)
GPU Implementation
* 14. Do you have other applications for which a Performance Assessment would be useful?
O Yes
No
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) © Yes No Not sure No
Could you say why?
Depends on cost
* 16. Would you recommend the POP service to your colleagues? © Yes © Possibly © No
Thank you very much.

Contribution ID: 142f2c64-d5ec-4717-91ae-45f813fdf2f1

Date: 14/10/2020 09:42:53



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

*	1.	Report	Reference	Identifier
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POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR 071

* 2. Application name

BDDCML

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

* 4. How was this Performance Assessment carried out?
Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
Toolly conducted
*5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
* 6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
O Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
Which problems were unexpected?
Inefficient use of simultaneous threads
Lack of (or inefficient) use of vectorization
✓ Inefficient use of memory
☐ Inefficient communications (MPI, I/O,)
Poor scalability
✓ Load imbalance
Other (please specify)
Which other problems?
low arithmetic intensity in certain regions
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months)
2 person days
* 0. Did DOD fulfil your expectations?
*8. Did POP fulfil your expectations?
*8. Did POP fulfil your expectations? • Entirely • Partly • Not enough • Not at all
Entirely Partly Not enough Not at all
 Entirely Partly Not enough Not at all * 9. Overall, are you satisfied with this assessment?
Entirely Partly Not enough Not at all
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied
 Entirely Partly Not enough Not at all * 9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied * 10. Are you happy for POP to publish the results of the Performance Assessment?
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published.
 Entirely Partly Not enough Not at all * 9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied * 10. Are you happy for POP to publish the results of the Performance Assessment?

* 11. Would you be interested in receiving any training?		
Yes No		
Which kind of training does your team need?		
some of the performance analysis tools used in the evaluation		
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment)		
O Yes		
No, I have got enough information		
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed) ? Yes		
Not yet		
No, we don't plan to modify our code		
 * 14. Do you have other applications for which a Performance Assessment would be useful? Yes No 		
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes Not sure No		
Could you say why?		
Since BDDCML is a scientific code, this ability depends on available funding on our side.		
* 16. Would you recommend the POP service to your colleagues? © Yes © Possibly © No		
Thank you very much.		

Contribution ID: e38fc939-1a6b-433d-8515-bb4482afbce5

Date: 12/11/2020 11:26:25



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP AR 072

* 2. Application name

alphabeta_st_MPI_onelevel from PVHA_WF

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

Very efficiently	
Rather efficiently (no major problem)	
Rather difficult (e.g. unreasonable delay, unexpected constraints,)	
Poorly conducted	
*5. How did you find the Performance Assessment Report?	
Clear and easy to understand	
Somewhat difficult to understand	
Not at all clear	
*6. Did the recommendations just confirm what you knew from a previous analysis or by experience?	
O Yes	
No, I didn't suspect some of the problems revealed by this assessment	
No, because I had no idea about possible problems	
Which problems were unexpected?	
Inefficient use of simultaneous threads	
Lack of (or inefficient) use of vectorization	
✓ Inefficient use of memory	
☐ Inefficient communications (MPI, I/O,)	
Poor scalability	
✓ Load imbalance	
Other (please specify)	
	of.
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of	of
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months)	of
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of	of
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months)	of
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months)	of
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* 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) several days * 8. Did POP fulfil your expectations?	of
* 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) several days * 8. Did POP fulfil your expectations? © Entirely © Partly © Not enough © Not at all	of
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) several days *8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment?	of
* 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) several days * 8. Did POP fulfil your expectations? © Entirely © Partly © Not enough © Not at all	oof
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) several days *8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied	of
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*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) several days *8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment?	of
 *7. How much effort was required from you to complete this Performance Assessment? (rough estimate operson days/months) *8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No 	of
 *7. How much effort was required from you to complete this Performance Assessment? (rough estimate operson days/months) *8. Did POP fulfil your expectations? • Entirely • Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? • Very satisfied • Satisfied • Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. • Yes • Yes, under certain conditions No Under which conditions (in addition to the review of the article before publication)? 	
 *7. How much effort was required from you to complete this Performance Assessment? (rough estimate operson days/months) *8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No 	

*11. Would you be interested in receiving any training? © Yes No
t 10. Are you interceted in a Dreaf of Concept coming? (to better understand because mulication can be
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment)
Yes
No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)?
Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated?
Please enter a date in the following format (DD/MM/YYYY)
11/2020
* 14. Do you have other applications for which a Performance Assessment would be useful?
O Yes
No
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment
service in the future? (After the end of the European Commission funded POP project.)
○ Yes ○ Not sure ○ No
Could you say why?
We have not talked about it yet.
* 16. Would you recommend the POP service to your colleagues?
Yes Possibly No
Thank you very much.
Contact

Contribution ID: 55f0205a-0a09-4fb6-844a-9c4ef292c80b

Date: 23/10/2020 12:07:30



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

*	1.	Report	Reference	Identifier
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POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR 073

* 2. Application name

BayPass

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

*4. How was this Performance Assessment carried out?
Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
Toolly conducted
*5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
*6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
O Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
Which problems were unexpected?
Inefficient use of simultaneous threads
Lack of (or inefficient) use of vectorization
Inefficient use of memory
☐ Inefficient communications (MPI, I/O,)
Poor scalability
Load imbalance
Other (please specify)
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of
person days/months)
0.5 person day
*8. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
*9. Overall, are you satisfied with this assessment?
Very satisfied Satisfied Partly satisfied Not Satisfied
* 10. Are you happy for POP to publish the results of the Performance Assessment?
Note: You will be able to review any article before it is published.
Yes Yes, under certain conditions No
*11. Would you be interested in receiving any training?
*11. Would you be interested in receiving any training? © Yes No
*11. Would you be interested in receiving any training? © Yes No

refactored to address some of the issues found in the Performance Assessment)

Yes
No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been
proposed) ?
Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated? Please enter a date in the following format (DD/MM/YYYYY)
31/12/2020
31/12/2020
 * 14. Do you have other applications for which a Performance Assessment would be useful? Yes No
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment
service in the future? (After the end of the European Commission funded POP project.)
Yes Not sure No
Could you say why?
Depend on the available fundings and service costs
* 16. Would you recommend the POP service to your colleagues?
Yes Possibly No
Thank you very much.

Contribution ID: 4468667f-62bf-400b-84c5-f042e4195d77

Date: 10/11/2020 11:28:38



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

*	1.	Report	Reference	Identifier
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POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR 074

* 2. Application name

NS3Dneo

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

*4. How was this Performance Assessment carried out?
Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
*5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
*6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
O Yes
No, I didn't suspect some of the problems revealed by this assessment
 No, because I had no idea about possible problems
Which problems were unexpected?
Inefficient use of simultaneous threads
Lack of (or inefficient) use of vectorization
Inefficient use of memory
☐ Inefficient communications (MPI, I/O,)
Poor scalability
Load imbalance
Other (please specify)
* 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of
person days/months)
3 days
*8. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
Any suggestions for improvement of the Performance Assessment?
*9. Overall, are you satisfied with this assessment?
 Very satisfied Satisfied Not Satisfied
Could you say why?

The Analysis focused on a code region that had a high runtime only due to instrumentation overhead. Although the respective code region now is faster with the suggestions implemented from the performance report, the overall performance benefit is very small.

* 10. Are you happy for POP to publish the results of the Performance Assessment?
Note: You will be able to review any article before it is published.
Yes Yes, under certain conditions No
Under which conditions (in addition to the review of the article before publication)?
It should be made clear that the respective code part being slow is an artifact of the instrumentation overhead and does not actually reflect the state of the code.
* 11. Would you be interested in receiving any training? © Yes No
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment)
No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed) ? Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated? Please enter a date in the following format (DD/MM/YYYYY)
04/09/2020
* 14. Do you have other applications for which a Performance Assessment would be useful? © Yes • No
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes O Not sure O No
Could you say why?

* 16. Would you recommend the POP service to your colleagues?

Yes
Possibly
No

Thank you very much.

Contact

Contribution ID: 5ff2e65a-a553-4aa6-a7f8-ee9dc6844e2c

Date: 14/12/2020 17:00:25



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1.	Report	Reference	Identifier
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POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR 075

* 2. Application name

BigDFT

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

* 4. How was this Performance Assessment carried out?
Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
*5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
Could you say why?
Some of the metrics were different to what I have previously encountered, however after explanation from the POP expert, things became much clearer.
*C. Did the vector and time in the confirmation to the transfer of the confirmation of
*6. Did the recommendations just confirm what you knew from a previous analysis or by experience? O Yes
- 100
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
Which problems were unexpected?
✓ Inefficient use of simultaneous threads
Lack of (or inefficient) use of vectorization
Inefficient use of memory
Inefficient communications (MPI, I/O,)
Poor scalability
Load imbalance
Other (please specify)
*7. How much offert was required from you to complete this Devformance Assessment? (rough estimate of
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months)
person days/months)
< 1 person day
*8. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
Any suggestions for improvement of the Performance Assessment?
The POP assessment was already useful and interesting, however as discussed with the POP expert this
could be made even more useful if repeated in future for a larger, more realistic problem size.

*9. Overall, are you satisfied with this assessment?

2

 Very satisfied Satisfied Partly satisfied Not Satisfied
 * 10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No
*11. Would you be interested in receiving any training? © Yes No
 * 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Yes No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)? O Yes Not yet No, we don't plan to modify our code
* 14. Do you have other applications for which a Performance Assessment would be useful? O Yes No
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes O Not sure O No
Could you say why?
Although this could potentially be useful, I'm not sure if/where I would be able to find the budget to pay for it.
*16. Would you recommend the POP service to your colleagues? © Yes © Possibly © No
Thank you very much.

Contribution ID: 2d50d9e2-66bc-48f1-990e-1d7e13b9c1d6

Date: 26/10/2020 14:18:51



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

*	1.	Report	Reference	Identifier
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POP2_AR_nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR 077

* 2. Application name

Abide

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

* 4. How was this Performance Assessment carried out?
Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
*5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
*6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
O Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
Which problems were unexpected?
☐ Inefficient use of simultaneous threads
Lack of (or inefficient) use of vectorization
✓ Inefficient use of memory
☐ Inefficient communications (MPI, I/O,)
Poor scalability
Load imbalance
Other (please specify)
*7. How much offert was required from you to complete this Performance Assessment? (rough estimate of
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months)
person days/months)
1 person for 5 days
*8. Did POP fulfil your expectations?
 Entirely Partly Not enough Not at all
Entiroly of fairly of Not onlong!
*9. Overall, are you satisfied with this assessment?
Very satisfied Satisfied Partly satisfied Not Satisfied
very satisfied Satisfied Farity satisfied Not Satisfied
* 10. Are you happy for POP to publish the results of the Performance Assessment?
Note: You will be able to review any article before it is published.
Yes Yes, under certain conditions No
Tes, under certain conditions
*11. Would you be interested in receiving any training?
Yes No
- 165 - INU
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be
12.7.10 job interested in a 1 reer of estimate service. (to bottor discretiand now your application can be

refactored to address some of the issues found in the Performance Assessment)

Yes
No, I have got enough information
*13. Do you have a plan to modify your code (taking into account the recommendations that have been
proposed) ?
Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated?
Please enter a date in the following format (DD/MM/YYYY)
01/01/2021
*14. Do you have other applications for which a Performance Assessment would be useful?
Yes
No
*15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment
service in the future? (After the end of the European Commission funded POP project.)
Yes Not sure No
Could you say why?
no funds devoted to this aim.
no funds devoted to this aim.
*16. Would you recommend the POP service to your colleagues?
Yes Possibly No
Thank you very much.

Contribution ID: 80ad2c7a-106f-457b-a7ad-4287458392a6

Date: 31/03/2021 11:53:30



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP AR 078

* 2. Application name

NEMO

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

4. How was this Performance Assessment carried out?
Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
*5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
Could you say why?
Report was clear but some of the HPC concepts are hard to really understand in order to fully benefit from the support
* 6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
O Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
Which problems were unexpected?
Inefficient use of simultaneous threads
Lack of (or inefficient) use of vectorization
Inefficient use of memory
_
☑ Inefficient communications (MPI, I/O,)
Poor scalability
Load imbalance
Other (please specify)
* 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months)
a few days
*8. Did POP fulfil your expectations?
 Entirely Partly Not enough Not at all
Entiroly of facility of Not onlong.
* 0. Overall, are you satisfied with this assessment?
*9. Overall, are you satisfied with this assessment?
Very satisfied Satisfied Partly satisfied Not Satisfied
* 10. Are you happy for POP to publish the results of the Performance Assessment?
Note: You will be able to review any article before it is published.
Yes Yes, under certain conditions No

Which kind of training does your team need?	_
We already had several "personal training" by jesus Labarta on extrae/paraver	
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Yes 	
No, I have got enough information	
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)? Output No, we don't plan to modify our code	
When approximately, do you expect to have all needed modifications done and validated? Please enter a date in the following format (DD/MM/YYYY)	
This work of integration will be done in several steps. Most of the easiest optimizations are already in the code or will be in the code by the end of the year (12/31/2021). Other modifications will require deeper code refactoring and require more time	
* 14. Do you have other applications for which a Performance Assessment would be useful?	
* 14. Do you have other applications for which a Performance Assessment would be useful? Yes	
* 14. Do you have other applications for which a Performance Assessment would be useful? Yes No	
* 14. Do you have other applications for which a Performance Assessment would be useful? O Yes No How many and when do you plan to get them assessed?	
* 14. Do you have other applications for which a Performance Assessment would be useful? ② Yes ② No How many and when do you plan to get them assessed? at IPSL, XIOS or DYNAMICO models could be interested * 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.)	
*14. Do you have other applications for which a Performance Assessment would be useful? Yes No How many and when do you plan to get them assessed? at IPSL, XIOS or DYNAMICO models could be interested *15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) Yes Not sure No	

Thank you very much.

Contact

Contribution ID: 1030cc8c-e7db-48b9-bc01-7de83ae997f2

Date: 23/10/2020 12:07:26



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR 079-juKKR

* 2. Application name

juKKR-KKRhost

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

*4. How was this Performance Assessment carried out?
Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
*5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
* 6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
Which problems were unexpected?
Inefficient use of simultaneous threads
Lack of (or inefficient) use of vectorization
✓ Inefficient use of memory
☐ Inefficient communications (MPI, I/O,)
Poor scalability
Load imbalance
Other (please specify)
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of
person days/months)
2 days
2 days
*8. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
*9. Overall, are you satisfied with this assessment?
Very satisfied Satisfied Partly satisfied Not Satisfied
* 10. Are you happy for POP to publish the results of the Performance Assessment?
Note: You will be able to review any article before it is published.
Note: You will be able to review any article before it is published.
Yes Yes, under certain conditions No
 Yes Yes, under certain conditions No *11. Would you be interested in receiving any training?

	GPU programming and porting
refac	Are you interested in a Proof-of-Concept service? (to better understand how your application can be ctored to address some of the issues found in the Performance Assessment) Yes
(No, I have got enough information
	Do you have a plan to modify your code (taking into account the recommendations that have been losed)?
(Yes
0	Not yet
(No, we don't plan to modify our code
	en approximately, do you expect to have all needed modifications done and validated? ase enter a date in the following format (DD/MM/YYYY)
	30/11/2020
* 14. [Do you have other applications for which a Performance Assessment would be useful?
	Yes
0	D No
How	many and when do you plan to get them assessed?
	1 (juKKR-KKRimp), mid 2021
	Based on this experience, would your organisation be prepared to pay for a Performance Assessment ice in the future? (After the end of the European Commission funded POP project.)
(Yes Not sure No
Coul	ld you say why?
	I am generally not involved in budget decisions
* 16. \	Would you recommend the POP service to your colleagues?
	Yes Possibly No
Tha	nk you very much.

Contribution ID: dbcb7530-07ef-4ef0-8922-8ec6af8ecaa5

Date: 03/12/2020 17:09:58



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

*	1.	Report	Reference	Identifier
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POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR 080

* 2. Application name

EMEP MSC-W

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

*4. How was this Performance Assessment carried out?
Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
*5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
*6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
O Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
Which problems were unexpected?
Inefficient use of simultaneous threads
Lack of (or inefficient) use of vectorization
Inefficient use of memory
✓ Inefficient communications (MPI, I/O,)
Poor scalability
Load imbalance
Other (please specify)
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of
person days/months)
1 day - setting up the testcase data for
Today Colling up the testedes data for
*8. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
*9. Overall, are you satisfied with this assessment?
Very satisfied Satisfied Partly satisfied Not Satisfied
*10. Are you happy for POP to publish the results of the Performance Assessment?
Note: You will be able to review any article before it is published.
Yes Yes, under certain conditions No
*11. Would you be interested in receiving any training?
Yes No
Which kind of training does your team need?

using the performance tools
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment)
Yes
No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)?
O Yes
Not yet
No, we don't plan to modify our code
* 14. Do you have other applications for which a Performance Assessment would be useful?
Yes
O No
How many and when do you plan to get them assessed?
no specific code in mind at the moment, but we work on a range of codes for different researchers, and will consider recommending POP where we think it would be useful
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes Not sure No
Could you say why?
It would depend on what individual academics would want - we could recommend it, but would need them to make the decision on if they wanted the service or not.
*16. Would you recommend the POP service to your colleagues? O Yes Possibly No
Thank you very much.

Contribution ID: d7bb21f0-470c-4133-ba90-e612e99d5321

Date: 16/11/2020 10:53:16



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

*	1.	Report	Reference	Identifier
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POP2_AR_nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR 081

* 2. Application name

FALL3D

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

*4. How was this Performance Assessment carried out?				
Very efficiently				
Rather efficiently (no major problem)				
Rather difficult (e.g. unreasonable delay, unexpected constraints,)				
Poorly conducted				
Toony conducted				
*5. How did you find the Performance Assessment Report?				
Clear and easy to understand				
Somewhat difficult to understand				
Not at all clear				
* 6. Did the recommendations just confirm what you knew from a previous analysis or by experience?				
O Yes				
No, I didn't suspect some of the problems revealed by this assessment				
No, because I had no idea about possible problems				
Which problems were unexpected?				
Inefficient use of simultaneous threads				
Lack of (or inefficient) use of vectorization				
Inefficient use of memory				
☐ Inefficient communications (MPI, I/O,)				
Poor scalability				
Load imbalance				
Other (please specify)				
_ cuto. (produce openity)				
Which other problems?				
system noise had large impact on results				
* 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months)				
3 days				
*8. Did POP fulfil your expectations?				
Entirely Partly Not enough Not at all				
*9. Overall, are you satisfied with this assessment?				
Very satisfied Satisfied Partly satisfied Not Satisfied				
_ 1.5., Salioned _ Salioned _ 1 arry Salioned _ 1101 Salioned				
* 10. Are you happy for POP to publish the regults of the Performance Assessment?				
* 10. Are you happy for POP to publish the results of the Performance Assessment?				
Note: You will be able to review any article before it is published. © Yes © Yes, under certain conditions © No				
🐷 165 🐷 165, unuci ceitain conditions 🐷 Ino				

*11. Would you be interested in receiving any training? © Yes © No
Yes No
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment)
Yes Ne. Uhava met anavarla information.
No, I have got enough information
*13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)?
Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all product modifications done and validated?
When approximately, do you expect to have all needed modifications done and validated? Please enter a date in the following format (DD/MM/YYYY)
31/12/2021
*14. Do you have other applications for which a Performance Assessment would be useful?
YesNo
© 140
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment
service in the future? (After the end of the European Commission funded POP project.)
○ Yes ○ Not sure ○ No
Could you say why?
My organization is a current PoP member
* 16. Would you recommend the POP service to your colleagues?
Yes Possibly No
Thank you very much.
Contact

Contribution ID: 672ce820-68b3-4f4a-af1a-521424ba0a7e

Date: 26/11/2020 11:07:14



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

*	1.	Report	Reference	Identifier
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POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR 083

* 2. Application name

PORTA

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

*4. How was this Performance Assessment carried out?
Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
*5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
*6. Did the recommendations just confirm what you knew from a previous analysis or by experience? © Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
* 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months)
2 days
 *8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No *11. Would you be interested in receiving any training? Yes No
Which kind of training does your team need?
Profiing tools (MPI+OpenMP+OpenACC)
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Output Performance Assessment No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed) ?

Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated?
Please enter a date in the following format (DD/MM/YYYY)
riease enter a date in the following format (DD/MM/TTTT)
Not sure, as we are planning to do some measurements first of the part of the code where we saw a
computation imbalance, to see if our plan of action is viable or not.
* 14. Do you have other applications for which a Performance Assessment would be useful?
Yes
O No
How many and when do you plan to get them assessed?
The many and men de year plante get them decessed.
One (POLMAG-CORONA). I would like to prepare to submit a request to get it assessed by the end of 2020
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment
service in the future? (After the end of the European Commission funded POP project.)
Yes Not sure No
Could you say why?
I think it is a very valuable service, but not sure how difficult (administratively) would be to use project money
to pay for such a service.
* 16. Would you recommend the POP service to your colleagues?
Yes Possibly No
Thank you very much.
THAIR YOU VOLY HILLOH.

samir.ben-chaabane@teratec.eu

Contribution ID: a558b3fc-1718-4885-9e0e-1bb157f8df15

Date: 18/12/2020 01:43:19



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

*	1.	Report	Reference	Identifier
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POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR 090

* 2. Application name

xshells

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

* 4. How \	was this Performance Assessment carried out?
V	ery efficiently
R	eather efficiently (no major problem)
_	eather difficult (e.g. unreasonable delay, unexpected constraints,)
_	orly conducted
* 5. How o	did you find the Performance Assessment Report?
O	Elear and easy to understand
© S	omewhat difficult to understand
	lot at all clear
* 6. Did th	e recommendations just confirm what you knew from a previous analysis or by experience?
Y	res de la companya d
N	lo, I didn't suspect some of the problems revealed by this assessment
N	lo, because I had no idea about possible problems
Which p	roblems were unexpected?
Ir	nefficient use of simultaneous threads
	ack of (or inefficient) use of vectorization
Ir	nefficient use of memory
Ir	nefficient communications (MPI, I/O,)
	oor scalability
	oad imbalance
▼ C	Other (please specify)
Which o	ther problems?
low	IPC region, likely due to reading from other processes memory
*7 How r	much effort was required from you to complete this Performance Assessment? (rough estimate of
	days/months)
0.5	person days.
* 8. Did P	OP fulfil your expectations?
© E	ntirely Partly Not enough Not at all
Any sug	gestions for improvement of the Performance Assessment?

*9. Overall, are you satisfied with this assessment?

 Very satisfied Satisfied Partly satisfied Not Satisfied
* 10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No
*11. Would you be interested in receiving any training? © Yes No
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Yes No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)? O Yes Not yet No, we don't plan to modify our code
 *14. Do you have other applications for which a Performance Assessment would be useful? Yes No
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes Not sure No
Could you say why? It is not clear from the report how to proceed to improve performance (performance is already very good).
* 16. Would you recommend the POP service to your colleagues? O Yes Possibly No Could you say why?
if colleagues need help for performance improvements

Thank you very much.

Contact

Contribution ID: ea772bb0-b1b2-4938-a4f5-d92f1cb11e14

Date: 02/03/2021 17:34:16



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR xxx

* 2. Application name

PIERNIK MHD CODE

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

*4. How was this Performance Assessment carried out?
Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
* 5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
* 6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
O Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
Which problems were unexpected?
Inefficient use of simultaneous threads
Lack of (or inefficient) use of vectorization
Inefficient use of memory
Inefficient communications (MPI, I/O,)
Poor scalability
Load imbalance
✓ Other (please specify)
Which other problems?
By visual analyzing graphical representation of time spent within a timestep, especially the intervals between "clusters" of MPI activities, we found some unexpected structures. These were related to parts of the code that were looking innocent at first glance – there was good load balance and IPC ratio. The problem was that these were CPU cycles spent between calls to the MHD solver and these took more time that the solver itself. Finally it turned out that these were big memory copy operations in boundary exchange routines which were recently enabled in production runs. We were able to greatly reduce the number of memory copies (most of that work is published in https://github.com/piernik-dev/piernik/pull/406). We see now that there are more speedups achievable in that part of the code. We plan to exploit these possibilities but it seems that it will be way easier to do it with MPI-2 one-sided communication (MPI_Get), which we havent used yet in Piernik (we use nonblocking MPI send/recv as for now).
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months)
It was not much effort on the side of our team. Most of the communication with the POP analysis expert was done during the routine meetings of the Piernik code development team.
*8. Did POP fulfil your expectations? © Entirely © Partly © Not enough © Not at all

*9. Overall, are you satisfied with this assessment? Output Output
 * 10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No
* 11. Would you be interested in receiving any training? O Yes O No
Which kind of training does your team need?
We need a general training on the use of profiling tools offered by POP. The most desired is the "Darshan" for profiling parallel pdf I/O.
 * 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Yes No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed) ?
When approximately, do you expect to have all needed modifications done and validated? Please enter a date in the following format (DD/MM/YYYY)
Development of Piernik MHD code is a continuous process, therefore it is no specific deadline, however, we would be happy to have the analysis completed by the mid of 2021.
* 14. Do you have other applications for which a Performance Assessment would be useful? O Yes No
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes O Not sure O No
Could you say why?
There are no specific funds available at our University for external support towards code development.

*16. Would you recommend the POP service to your colleagues?

3

0	Yes		Possibly		No
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Thank you very much.

Contact

Contribution ID: f1222f93-6d76-428b-b165-dd948f09309f

Date: 30/03/2021 14:25:24



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

Pencil Code Assessment (POP2)

* 2. Application name

Axel Brandenburg

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

* 4. How was this Performance Assessment carried out?
Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
*5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
Could you say why?
What looked like poor scaling wasn't actually bad.
what looked like poor scaling wash t actually bad.
*6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
* 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of
person days/months)
person days/months)
10 man hours
10 man hours * 8. Did POP fulfil your expectations?
10 man hours
*8. Did POP fulfil your expectations? © Entirely © Partly © Not enough © Not at all
10 man hours * 8. Did POP fulfil your expectations?
*8. Did POP fulfil your expectations? © Entirely © Partly © Not enough © Not at all
*8. Did POP fulfil your expectations? © Entirely © Partly © Not enough © Not at all Any suggestions for improvement of the Performance Assessment?
*8. Did POP fulfil your expectations? © Entirely © Partly © Not enough © Not at all Any suggestions for improvement of the Performance Assessment?
*8. Did POP fulfil your expectations? © Entirely © Partly © Not enough © Not at all Any suggestions for improvement of the Performance Assessment?
*8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all Any suggestions for improvement of the Performance Assessment? Comparison with other reports would be useful, but they are all confidential.
*8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all Any suggestions for improvement of the Performance Assessment? Comparison with other reports would be useful, but they are all confidential. *9. Overall, are you satisfied with this assessment?
*8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all Any suggestions for improvement of the Performance Assessment? Comparison with other reports would be useful, but they are all confidential.
*8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all Any suggestions for improvement of the Performance Assessment? Comparison with other reports would be useful, but they are all confidential. *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied
*8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all Any suggestions for improvement of the Performance Assessment? Comparison with other reports would be useful, but they are all confidential. *9. Overall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment?
*8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all Any suggestions for improvement of the Performance Assessment? Comparison with other reports would be useful, but they are all confidential. *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published.
*8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all Any suggestions for improvement of the Performance Assessment? Comparison with other reports would be useful, but they are all confidential. *9. Overall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment?
*8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all Any suggestions for improvement of the Performance Assessment? Comparison with other reports would be useful, but they are all confidential. *9. Overall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No
*8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all Any suggestions for improvement of the Performance Assessment? Comparison with other reports would be useful, but they are all confidential. *9. Overall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No *11. Would you be interested in receiving any training?
*8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all Any suggestions for improvement of the Performance Assessment? Comparison with other reports would be useful, but they are all confidential. *9. Overall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No

refactored to address some of the issues found in the Performance Assessment)
Yes
No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been
proposed) ? © Yes
YesNot yet
No, we don't plan to modify our code
Two, we don't plan to modify our code
* 14. Do you have other applications for which a Performance Assessment would be useful? O Yes
No
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.)
Yes Not sure No
Could you say why?
The code is developed by the community at zero cost.
* 16. Would you recommend the POP service to your colleagues?
Yes Possibly No
Thank you very much.

Contribution ID: 86d68a3e-ce5b-47df-a6ad-ed04e0876f2b

Date: 05/08/2021 19:22:49



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

*	1.	Report	Reference	Identifier
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POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP 2

* 2. Application name

Microfarm

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

*4. How was this Performance Assessment carried out?
Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
*5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
* 6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
Yes
No, I didn't suspect some of the problems revealed by this assessment
 No, because I had no idea about possible problems
Which problems were unexpected?
Inefficient use of simultaneous threads
Lack of (or inefficient) use of vectorization
Inefficient use of memory
✓ Inefficient communications (MPI, I/O,)
Poor scalability
Load imbalance
Other (please specify)
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of
person days/months)
a few days (I am not sure how much time the experts spent)
*8. Did POP fulfil your expectations?
•
Entirely Partly Not enough Not at all
* O Overall are you getiefied with this accomment?
* 9. Overall, are you satisfied with this assessment?
Very satisfied Satisfied Partly satisfied Not Satisfied
*10. Are you happy for DOD to publish the regults of the Devformance Accessment?
* 10. Are you happy for POP to publish the results of the Performance Assessment?
Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No
Yes Yes, under certain conditions INO
*11. Would you be interested in receiving any training?
Yes No
U TES VINO
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be

refactored to address some of the issues found in the Performance Assessment)

Yes
No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been
proposed) ?
Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated?
Please enter a date in the following format (DD/MM/YYYY)
in a year
* 14. Do you have other applications for which a Performance Assessment would be useful?
O Yes
No
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment
service in the future? (After the end of the European Commission funded POP project.)
○ Yes ○ Not sure ○ No
Could you say why?
My application is relatively simple, and once improved, any further testing would not be necessary.
* 16. Would you recommend the POP convice to your colleggues?
* 16. Would you recommend the POP service to your colleagues?
Yes Possibly No
Thank you very much.

Contribution ID: d6343236-adaf-4abe-9302-3571c0bd0325

Date: 09/03/2021 13:20:34



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

*	1.	Report	Reference	Identifier
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POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR#443

* 2. Application name

SeisSol

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

*4. How was this Performance Assessment carried out?
Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
Could you say why?
unexpected delays
*5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
*6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of
person days/months)
10 days
*8. Did POP fulfil your expectations?
 Entirely Partly Not enough Not at all
Any suggestions for improvement of the Performance Assessment?
*9. Overall, are you satisfied with this assessment?
 Very satisfied Satisfied Partly satisfied Not Satisfied
Could you say why?
* 10. Are you happy for POP to publish the results of the Performance Assessment?
Note: You will be able to review any article before it is published.
YesYes, under certain conditionsNo

Under which conditions (in addition to the review of the article before publication)?					
*11. Would you be interested in receiving any training? Yes No					
Which kind of training does your team need?					
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Output Description:					
No, I have got enough information					
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed) ? © Yes					
O Not yet					
No, we don't plan to modify our code					
When approximately, do you expect to have all needed modifications done and validated? Please enter a date in the following format (DD/MM/YYYY)					
* 14. Do you have other applications for which a Performance Assessment would be useful? O Yes No					
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes No					
Could you say why?					
*16. Would you recommend the POP service to your colleagues?					
○ Yes ○ Possibly ○ No					
Could you say why?					

Thank you very much.

Contact

Contribution ID: e6fc7530-54b1-4716-bd57-6d3bb0331c3e

Date: 31/03/2021 15:14:23



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

*	1.	Report	Reference	Identifier
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POP2_AR_nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR 097

* 2. Application name

CIAO

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

4. How was this Performance Assessment carried out?
Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
*5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
*6. Did the recommendations just confirm what you knew from a previous analysis or by experience? © Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
110, because That no idea about possible problems
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of
person days/months)
person days/months)
About 3 person days
* 0. Did DOD fulfil your expectations?
*8. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
Entirely Partly Not enough Not at all
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment?
Entirely Partly Not enough Not at all
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment?
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment?
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment?
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published.
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No *11. Would you be interested in receiving any training?
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No *11. Would you be interested in receiving any training?
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No *11. Would you be interested in receiving any training? Yes No *12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No *11. Would you be interested in receiving any training? Yes No *12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment)
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No *11. Would you be interested in receiving any training? Yes No *12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Yes
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No *11. Would you be interested in receiving any training? Yes No *12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Yes
 Entirely Partly Not enough Not at all 9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied 10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No 11. Would you be interested in receiving any training? Yes No 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Yes No, I have got enough information 13. Do you have a plan to modify your code (taking into account the recommendations that have been
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No *11. Would you be interested in receiving any training? Yes No *12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Yes No, I have got enough information *13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)?
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No *11. Would you be interested in receiving any training? Yes No *12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Yes No, I have got enough information *13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)? Yes Yes

*14. Do you have other applications for which a Performance Assessment would be useful?
Yes
No
*15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes O Not sure O No
Could you say why?
*16. Would you recommend the POP service to your colleagues? Yes Possibly No

Thank you very much.

Contact

Contribution ID: 3824c754-39a6-490e-8671-7d32fa32b281

Date: 19/05/2021 13:14:20



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

*	1.	Report	Reference	Identifier
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POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR 450

* 2. Application name

ExaHyPE

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
,
*5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
*6. Did the recommendations just confirm what you knew from a previous analysis or by experience? • Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months)
7 days
r days
*8. Did POP fulfil your expectations? © Entirely © Partly © Not enough © Not at all
*9. Overall, are you satisfied with this assessment?
Very satisfied Satisfied Partly satisfied Not Satisfied
,
*10. Are you happy for POP to publish the results of the Performance Assessment?
Note: You will be able to review any article before it is published.
Yes Yes, under certain conditions No
Tes, under certain conditions
* 11 Mould you be interested in receiving any training?
*11. Would you be interested in receiving any training?
*11. Would you be interested in receiving any training? © Yes No
 Yes No *12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment)
 Yes No * 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be
 Yes No *12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment)
 Yes No * 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Yes
 Yes No * 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Yes
 Yes No * 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Yes No, I have got enough information * 13. Do you have a plan to modify your code (taking into account the recommendations that have been
 Yes No *12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Yes No, I have got enough information *13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)? Yes
 Yes No *12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Yes No, I have got enough information *13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)?

When approximately, do you expect to have all needed modifications done and validated?		
Please enter a date in the following format (DD/MM/YYYY)		
*14. Do you have other applications for which a Performance Assessment would be useful?		
YesNo		
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes Not sure No		
Could you say why?		
*16. Would you recommend the POP service to your colleagues? Yes Possibly No		

Thank you very much.

Contact

Contribution ID: 673d5324-152e-4870-b27f-4a36ca95277d

Date: 22/02/2021 13:57:00



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

*	1.	Report	Reference	Identifier
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POP2_AR_nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR 101

* 2. Application name

foxtrot

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

* 4. How was this Performance Assessment carried out?
Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
, , , , , , , , , , , , , , , , , , ,
* 5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
1 Vot at an ordar
* 6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
* 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of
person days/months)
5
to Did DOD fulfil
* 8. Did POP fulfil your expectations?
S. Did POP fulfil your expectations? Entirely Partly Not enough Not at all
Entirely Partly Not enough Not at all
 Entirely Partly Not enough Not at all * 9. Overall, are you satisfied with this assessment?
 Entirely Partly Not enough Not at all * 9. Overall, are you satisfied with this assessment?
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied
 Entirely Partly Not enough Not at all * 9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied * 10. Are you happy for POP to publish the results of the Performance Assessment?
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published.
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 Entirely Partly Not enough Not at all 9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No *11. Would you be interested in receiving any training? Yes No Which kind of training does your team need? I have followed already training about some tools from POP, but if I can received some additional information
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 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No *11. Would you be interested in receiving any training? Yes No Which kind of training does your team need? I have followed already training about some tools from POP, but if i can received some additional information about analysis tools used for performance assessment, it could be great.
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No *11. Would you be interested in receiving any training? Yes No Which kind of training does your team need? I have followed already training about some tools from POP, but if i can received some additional information about analysis tools used for performance assessment, it could be great. *12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No *11. Would you be interested in receiving any training? Yes No Which kind of training does your team need? I have followed already training about some tools from POP, but if i can received some additional information about analysis tools used for performance assessment, it could be great. *12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment)
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No *11. Would you be interested in receiving any training? Yes No Which kind of training does your team need? I have followed already training about some tools from POP, but if i can received some additional information about analysis tools used for performance assessment, it could be great. *12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be

13. Do you have a plan to modify your code (taking into account the recommendations that have been
proposed) ?
Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated? Please enter a date in the following format (DD/MM/YYYY)
second weeks of march
*14. Do you have other applications for which a Performance Assessment would be useful?
Yes No
○ NO
How many and when do you plan to get them assessed?
i develop another numerical solver with mpi parallelism. It could be done during summer
*15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) Yes Not sure No Could you say why?
*16. Would you recommend the POP service to your colleagues?
Thank you very much.

Contribution ID: 7bc76771-f0fb-4c73-b662-6ad60518c9fa

Date: 04/06/2021 14:13:17



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR102

* 2. Application name

DAMASK

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

* 4. How was this Performance Assessment carried out?
Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
*5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
*6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
O Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
Which problems were unexpected?
✓ Inefficient use of simultaneous threads
Lack of (or inefficient) use of vectorization
Inefficient use of memory
☐ Inefficient communications (MPI, I/O,)
Poor scalability
Load imbalance
Other (please specify)
* 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of
person days/months)
14 days
14 days
* 8. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
* 9. Overall, are you satisfied with this assessment?
 Very satisfied Satisfied Partly satisfied Not Satisfied
Very Satisfied Satisfied Party Satisfied Not Satisfied
* 10. Are you happy for POP to publish the results of the Performance Assessment?
Note: You will be able to review any article before it is published.
Yes Yes, under certain conditions No
*11. Would you be interested in receiving any training?
* 11. Would you be interested in receiving any training? Output Output Provided the interested in receiving any training?

performance analysis, tool usage		
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment)		
Yes		
No, I have got enough information		
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)?		
Yes		
Not yet		
No, we don't plan to modify our code		
No, we don't plan to modify our code		
When approximately, do you expect to have all needed modifications done and validated?		
Please enter a date in the following format (DD/MM/YYYY)		
6 months		
* 14. Do you have other applications for which a Performance Assessment would be useful? © Yes o No		
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) © Yes Not sure No		
Could you say why?		
Needs funding which is hard to get		
* 16. Would you recommend the POP service to your colleagues?		
Thank you very much.		

Contribution ID: 1e150f35-0ca7-4ce8-a573-da642d077c1f

Date: 22/04/2021 08:45:24



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

*	1.	Report	Reference	Identifier
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POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR 380

* 2. Application name

TRUST

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

* 4. How was this Performance Assessment carried out?
Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
Toolly conducted
*5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
*6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
Which problems were unexpected?
Inefficient use of simultaneous threads
Lack of (or inefficient) use of vectorization
Inefficient use of memory
✓ Inefficient communications (MPI, I/O,)
Poor scalability
Load imbalance
Other (please specify)
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of
person days/months)
0.25
*8. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
Entirely Partiy Not enough Not at all
*9. Overall, are you satisfied with this assessment?
 Very satisfied Satisfied Partly satisfied Not Satisfied
Very Satisfied Satisfied Virally Satisfied Vivo Satisfied
*10. Are you happy for POP to publish the results of the Performance Assessment?
Note: You will be able to review any article before it is published.
Yes Yes, under certain conditions No
*11. Would you be interested in receiving any training?
○ Yes ● No
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be

refactored to address some of the issues found in the Performance Assessment)

Yes
No, I have got enough information
*13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)? O Yes Not yet No, we don't plan to modify our code
* 14. Do you have other applications for which a Performance Assessment would be useful? O Yes No
*15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes Not sure No
Could you say why?
* 16. Would you recommend the POP service to your colleagues?

Thank you very much.

Contact

Contribution ID: 479c9885-7b2f-47fc-90f5-fc8dda1c4ce8

Date: 19/04/2021 09:49:03



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2_AR_nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR 104

* 2. Application name

SIFEL

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
* 5. How did you find the Performance Assessment Report?
© Clear and easy to understand
Somewhat difficult to understand
Not at all clear
*6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
Which problems were unexpected?
Inefficient use of simultaneous threads
Lack of (or inefficient) use of vectorization
Inefficient use of memory
☐ Inefficient communications (MPI, I/O,)
Poor scalability
Load imbalance
Load imparance
Other (please specify)
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Other (please specify) * 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of
Other (please specify)
Other (please specify) * 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of
 Other (please specify) * 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months)
 Other (please specify) * 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 3 person days
 Other (please specify) * 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 3 person days * 8. Did POP fulfil your expectations?
 Other (please specify) * 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 3 person days
 Other (please specify) * 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 3 person days * 8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all
 Other (please specify) * 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 3 person days * 8. Did POP fulfil your expectations? © Entirely © Partly Not enough Not at all * 9. Overall, are you satisfied with this assessment?
 Other (please specify) * 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 3 person days * 8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all
 Other (please specify) *7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 3 person days *8. Did POP fulfil your expectations? © Entirely © Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? © Very satisfied © Satisfied © Partly satisfied Not Satisfied
 Other (please specify) *7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 3 person days *8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment?
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 Other (please specify) *7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 3 person days *8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment?
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 Other (please specify) *7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 3 person days *8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No *11. Would you be interested in receiving any training?
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 Other (please specify) *7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 3 person days *8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes, under certain conditions No *11. Would you be interested in receiving any training?

the use of simultaneous timeaus
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Output Description:
No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)?
Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated? Please enter a date in the following format (DD/MM/YYYY)
in 4 months
* 14. Do you have other applications for which a Performance Assessment would be useful? © Yes © No
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) Output Description:
Could you say why?
It depends whether there will be a grant project. My institution will not pay it.
* 16. Would you recommend the POP service to your colleagues? Yes Possibly No
Thank you very much.

Contribution ID: b4c5e7f3-ac03-4729-8c78-58111ae6f052

Date: 28/06/2021 11:23:20



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP AR 105

* 2. Application name

PhysiCell

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

*4. How was this Performance Assessment carried out?
Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
- Tooliy conducted
* 5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
*6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
O Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
Which problems were unexpected?
☐ Inefficient use of simultaneous threads
Lack of (or inefficient) use of vectorization
✓ Inefficient use of memory
☐ Inefficient communications (MPI, I/O,)
Poor scalability
✓ Load imbalance
Other (please specify)
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* 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of
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person days/months)
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person days/months)
person days/months) 6 hours, 1 person
person days/months) 6 hours, 1 person * 8. Did POP fulfil your expectations?
person days/months) 6 hours, 1 person
person days/months) 6 hours, 1 person * 8. Did POP fulfil your expectations? © Entirely © Partly © Not enough © Not at all
person days/months) 6 hours, 1 person * 8. Did POP fulfil your expectations? © Entirely © Partly © Not enough © Not at all * 9. Overall, are you satisfied with this assessment?
person days/months) 6 hours, 1 person * 8. Did POP fulfil your expectations? © Entirely © Partly © Not enough © Not at all
person days/months) 6 hours, 1 person * 8. Did POP fulfil your expectations? © Entirely © Partly © Not enough © Not at all * 9. Overall, are you satisfied with this assessment?
person days/months) 6 hours, 1 person *8. Did POP fulfil your expectations? © Entirely © Partly © Not enough © Not at all *9. Overall, are you satisfied with this assessment? © Very satisfied © Satisfied © Partly satisfied © Not Satisfied
person days/months) 6 hours, 1 person *8. Did POP fulfil your expectations? Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment?
person days/months) 6 hours, 1 person *8. Did POP fulfil your expectations? • Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? • Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published.
person days/months) 6 hours, 1 person *8. Did POP fulfil your expectations? • Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? • Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published.
person days/months) 6 hours, 1 person *8. Did POP fulfil your expectations? © Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? © Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. © Yes Yes, under certain conditions No
person days/months) 6 hours, 1 person *8. Did POP fulfil your expectations? © Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? © Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. © Yes Yes, under certain conditions No *11. Would you be interested in receiving any training?

	How to use and analyse extrae and paraver results. I know BSC hosts such courses, we are waiting for the new call.
refa	Are you interested in a Proof-of-Concept service? (to better understand how your application can be actored to address some of the issues found in the Performance Assessment) Yes No, I have got enough information
pro	Do you have a plan to modify your code (taking into account the recommendations that have been posed)? Yes Not yet No, we don't plan to modify our code
	en approximately, do you expect to have all needed modifications done and validated? ease enter a date in the following format (DD/MM/YYYYY)
	First version changing libraries is already available. The version changing the functions, six months.
	Do you have other applications for which a Performance Assessment would be useful? Yes No w many and when do you plan to get them assessed?
	PerMedCoE has other 3 applications that could be analysed, even though one is in Julia and another one uses scripting languages (Python and R). Also, we would be interested in having the analysis of apps that are derivative of PhysiCell: PhysiCell-MPI and PhysiBoSS
ser	Based on this experience, would your organisation be prepared to pay for a Performance Assessment vice in the future? (After the end of the European Commission funded POP project.) Yes Not sure No
	out how much could you or would you be willing to pay for this service? king as reference the sum your organisation is used to paying for other expert services
	At the hourly price of an experienced engineer (R3-R4) that we pay at BSC.
	Would you recommend the POP service to your colleagues? Yes Possibly No ank you very much.

Contribution ID: 3c6bde7d-411f-4360-a1e3-0e165b728a86

Date: 27/05/2021 14:53:34



POP Performance Assessment Evaluation

|--|

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

*	1.	Report	Reference	Identifier
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POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

107

* 2. Application name

ExaHyPE2

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

* 4. How was this Performance Assessment carried out?
Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
· · · · · · · · · · · · · · · · · · ·
* 5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
* 6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
Which problems were unexpected?
Inefficient use of simultaneous threads
Lack of (or inefficient) use of vectorization
Inefficient use of memory
☐ Inefficient communications (MPI, I/O,)
Poor scalability
Load imbalance
Other (please specify)
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of
person days/months)
1 month
*8. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
* 9. Overall, are you satisfied with this assessment?
Very satisfied Satisfied Partly satisfied Not Satisfied
* 10. Are you happy for POP to publish the results of the Performance Assessment?
Note: You will be able to review any article before it is published.
Yes Yes, under certain conditions No
* 11. Would you be interested in receiving any training?
○ Yes ● No ○
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be

refactored to address some of the issues found in the Performance Assessment)

O Yes
No, I have got enough information
*13. Do you have a plan to modify your code (taking into account the recommendations that have been
proposed) ?
Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated?
Please enter a date in the following format (DD/MM/YYYY)
6 months from now
* 14. Do you have other applications for which a Performance Assessment would be useful?
O Yes
No
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment
service in the future? (After the end of the European Commission funded POP project.)
○ Yes ○ Not sure ○ No
Could you say why?
Not sure how the university I work for would deal with that. Maybe as part of another grant or something. Not
sure.
* 16. Would you recommend the POP service to your colleagues?
Yes Possibly No
Thank you very much.

Contribution ID: 0e3cfa49-f523-4d45-a8eb-c03da42c2dd5

Date: 01/07/2021 14:15:36



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR 108

* 2. Application name

Romain Pennel

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

*4. How was this Performance Assessment carried out?	
Very efficiently	
Rather efficiently (no major problem)	
Rather difficult (e.g. unreasonable delay, unexpected constraints,)	
Poorly conducted	
*5. How did you find the Performance Assessment Report?	
Clear and easy to understand	
Somewhat difficult to understand	
Not at all clear	
*6. Did the recommendations just confirm what you knew from a previous analysis or by experience?	
O Yes	
No, I didn't suspect some of the problems revealed by this assessment	
No, because I had no idea about possible problems	
Which problems were unexpected?	
Inefficient use of simultaneous threads	
Lack of (or inefficient) use of vectorization	
Inefficient use of memory	
✓ Inefficient communications (MPI, I/O,)	
Poor scalability	
✓ Load imbalance	
Other (please specify)	
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of	
person days/months)	
2	
*8. Did POP fulfil your expectations?	
Entirely Partly Not enough Not at all	
Entirely of artiy of Not enough of Not at all	
*9. Overall, are you satisfied with this assessment?	
Very satisfied Satisfied Partly satisfied Not Satisfied	
Very Satisfied Satisfied Virally Satisfied Vivot Satisfied	
*10. Are you happy for POP to publish the results of the Performance Assessment?	
Note: You will be able to review any article before it is published.	
Yes Yes, under certain conditions No	
- 100, and obtain obtained to	
*11. Would you be interested in receiving any training?	
Yes No	

load balancing / vectorization
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment)
O Yes
No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been
proposed) ?
Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated?
Please enter a date in the following format (DD/MM/YYYY)
1 year
* 14. Do you have other applications for which a Performance Assessment would be useful?
© Yes
No
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment
service in the future? (After the end of the European Commission funded POP project.)
Yes Not sure No
Yes Not sure No
About how much could you or would you be willing to pay for this service?
Taking as reference the sum your organisation is used to paying for other expert services
rating de releteres the cam year ergameation is accut to paying for other expert convices
* 16. Would you recommend the POP service to your colleagues?
Yes Possibly No
Thank you very much.

Contribution ID: 2cf5f2dd-5687-4a80-ab46-347f9cbfc284

Date: 09/05/2021 23:39:59



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

*	1.	Report	Reference	Identifier
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POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

824080

* 2. Application name

ROSSBI

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

* 4. F	How was this Performance Assessment carried out?
	Very efficiently
	Rather efficiently (no major problem)
	Rather difficult (e.g. unreasonable delay, unexpected constraints,)
	Poorly conducted
*5. How did you find the Performance Assessment Report?	
	Clear and easy to understand
	Somewhat difficult to understand
	Not at all clear
* 6. [Did the recommendations just confirm what you knew from a previous analysis or by experience?
	© Yes
	No, I didn't suspect some of the problems revealed by this assessment
	No, because I had no idea about possible problems
Wh	ich problems were unexpected?
	■ Inefficient use of simultaneous threads
	Lack of (or inefficient) use of vectorization
	■ Inefficient use of memory
	✓ Inefficient communications (MPI, I/O,)
	Poor scalability
	✓ Load imbalance
	Other (please specify)
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of	
per	son days/months)
	1 person - 15days
* 8. E	Did POP fulfil your expectations?
	Entirely Partly Not enough Not at all
	Entirely Tarity Two chough Two at all
*9. Overall, are you satisfied with this assessment?	
	Very satisfied Satisfied Partly satisfied Not Satisfied
	Very Satisfied Statisfied Tarity Satisfied Two Coalisfied
* 10.	Are you happy for POP to publish the results of the Performance Assessment?
	te: You will be able to review any article before it is published.
	Yes Yes, under certain conditions No
	,
Under which conditions (in addition to the review of the article before publication)?	
	after changes will be made in the present version of the code. After the new version of the code will be
	tested.

* 11. Would you be interested in receiving any training? © Yes No
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Output Performance Assessment No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed) ?
Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated? Please enter a date in the following format (DD/MM/YYYY)
1 month
YesNoNoHow many and when do you plan to get them assessed?
already discussed with the present pop-expert
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes Not sure No
Could you say why?
too few people involved in code improvement in our lab.
* 16. Would you recommend the POP service to your colleagues?
Thank you very much.

Contribution ID: 7bedecd0-b9e8-44ef-ad07-bbddcb91dee3

Date: 05/08/2021 19:18:41



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR 112

* 2. Application name

EcoSISTEM.jl

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

4. I IOW	was this Performance Assessment carried out?
O	Very efficiently
© F	Rather efficiently (no major problem)
© F	Rather difficult (e.g. unreasonable delay, unexpected constraints,)
© F	Poorly conducted
* 5. How	did you find the Performance Assessment Report?
O	Clear and easy to understand
	Somewhat difficult to understand
0	Not at all clear
	ne recommendations just confirm what you knew from a previous analysis or by experience?
\[\]	∕es
©	No, I didn't suspect some of the problems revealed by this assessment
0	No, because I had no idea about possible problems
Mhiah r	problems were uneveneded?
	problems were unexpected?
	nefficient use of simultaneous threads
	Lack of (or inefficient) use of vectorization
_	nefficient use of memory
	nefficient communications (MPI, I/O,)
	Poor scalability
	Load imbalance
	Other (please specify)
▽ (
Which o	Other (please specify)
Which of Bu	Other (please specify) other problems?
Which of Bu	Other (please specify) other problems? g in implementation for higher numbers of MPI processes, inefficient load balancing in some corner cases much effort was required from you to complete this Performance Assessment? (rough estimate of
Which of Bu	Other (please specify) Other problems? g in implementation for higher numbers of MPI processes, inefficient load balancing in some corner cases much effort was required from you to complete this Performance Assessment? (rough estimate of days/months)
Which of Bu * 7. How person A f	Other (please specify) Other problems? g in implementation for higher numbers of MPI processes, inefficient load balancing in some corner cases much effort was required from you to complete this Performance Assessment? (rough estimate of days/months)
Which of Bu * 7. How person A f	Other (please specify) Other problems? g in implementation for higher numbers of MPI processes, inefficient load balancing in some corner cases much effort was required from you to complete this Performance Assessment? (rough estimate of days/months) ew days
Which of Bu * 7. How person A f * 8. Did F	Other (please specify) Other problems? g in implementation for higher numbers of MPI processes, inefficient load balancing in some corner cases much effort was required from you to complete this Performance Assessment? (rough estimate of days/months) ew days POP fulfil your expectations? Entirely Partly Not enough Not at all
Which of Bu * 7. How person A f * 8. Did F • 9. Over	Other (please specify) other problems? g in implementation for higher numbers of MPI processes, inefficient load balancing in some corner cases much effort was required from you to complete this Performance Assessment? (rough estimate of days/months) ew days POP fulfil your expectations? Entirely Partly Not enough Not at all all, are you satisfied with this assessment?
Which of Bu * 7. How person A f * 8. Did F • 9. Over	Other (please specify) Other problems? g in implementation for higher numbers of MPI processes, inefficient load balancing in some corner cases much effort was required from you to complete this Performance Assessment? (rough estimate of days/months) ew days POP fulfil your expectations? Entirely Partly Not enough Not at all
Which of Bu * 7. How person A f * 8. Did F • 9. Over	Other (please specify) other problems? g in implementation for higher numbers of MPI processes, inefficient load balancing in some corner cases much effort was required from you to complete this Performance Assessment? (rough estimate of days/months) ew days POP fulfil your expectations? Entirely Partly Not enough Not at all all, are you satisfied with this assessment?
Which of Bu * 7. How person A f * 8. Did F • 9. Over • 10. Are	Other (please specify) Other problems? g in implementation for higher numbers of MPI processes, inefficient load balancing in some corner cases much effort was required from you to complete this Performance Assessment? (rough estimate of days/months) ew days POP fulfil your expectations? Entirely Partly Not enough Not at all all, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied you happy for POP to publish the results of the Performance Assessment?
Which of Bu * 7. How person A f * 8. Did F • 9. Over • 10. Are Note: Y	Other (please specify) Other problems? In implementation for higher numbers of MPI processes, inefficient load balancing in some corner cases In implementation for higher numbers of MPI processes, inefficient load balancing in some corner cases In implementation for higher numbers of MPI processes, inefficient load balancing in some corner cases In implementation for higher numbers of MPI processes, inefficient load balancing in some corner cases In implementation for higher numbers of MPI processes, inefficient load balancing in some corner cases In implementation for higher numbers of MPI processes, inefficient load balancing in some corner cases In implementation for higher numbers of MPI processes, inefficient load balancing in some corner cases In implementation for higher numbers of MPI processes, inefficient load balancing in some corner cases In implementation for higher numbers of MPI processes, inefficient load balancing in some corner cases In implementation for higher numbers of MPI processes, inefficient load balancing in some corner cases In implementation for higher numbers of MPI processes, inefficient load balancing in some corner cases In implementation for higher numbers of MPI processes, inefficient load balancing in some corner cases In implementation for higher numbers of MPI processes, inefficient load balancing in some corner cases In implementation for higher numbers of MPI processes, inefficient load balancing in some corner cases In implementation for higher numbers of MPI processes, inefficient load balancing in some corner cases In implementation for higher numbers of MPI processes, inefficient load balancing in some corner cases In implementation for higher numbers of MPI processes, inefficient load balancing in some corner cases In implementation for higher numbers of MPI processes, inefficient load balancing in some corner cases In implementation for higher numbers of MPI processes, inefficient load balancing in some corner cases In implementation for higher

Yes No
Which kind of training does your team need?
Potentially we might be interested in training to carry out some of this profiling work
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) © Yes No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)? Output Not yet No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated? Please enter a date in the following format (DD/MM/YYYY)
We have completed them, and we would like to have the code reanalysed.
* 14. Do you have other applications for which a Performance Assessment would be useful? O Yes No
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes Not sure No
Could you say why?
I don't currently have a budget for this, but it was very useful so we would consider it if possible.
* 16. Would you recommend the POP service to your colleagues? O Yes Possibly No
Thank you very much.

* 11. Would you be interested in receiving any training?

Contact

Contribution ID: b1456484-2b62-4914-bfbc-e414ec8b392d

Date: 06/09/2021 16:23:46



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

*	1.	Report	Reference	Identifier
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POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP AR 115

* 2. Application name

Hiperlife

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

*4. How was this Performance Assessment carried out?
Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
*5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
* 6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
Which problems were unexpected?
Inefficient use of simultaneous threads
Lack of (or inefficient) use of vectorization
Inefficient use of memory
✓ Inefficient communications (MPI, I/O,)
Poor scalability
Load imbalance
Other (please specify)
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of
person days/months)
One person, one week overall
* 9. Did DOD fulfil your overstations?
*8. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
*9. Overall, are you satisfied with this assessment?
Very satisfied Satisfied Partly satisfied Not Satisfied
* 10. Are you happy for POP to publish the results of the Performance Assessment?
Note: You will be able to review any article before it is published.
Yes Yes, under certain conditions No
+11. Would you be interested in receiving any training?
* 11. Would you be interested in receiving any training?
○ Yes No
+10. Are you interested in a Dreaf of Consent comics 2 (to better understood become confication
*12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be

refactored to address some of the issues found in the Performance Assessment)

O Yes
No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been
proposed) ?
Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated?
Please enter a date in the following format (DD/MM/YYYY)
In 6 months
* 14. Do you have other applications for which a Performance Assessment would be useful?
Yes
No
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment
service in the future? (After the end of the European Commission funded POP project.)
Yes Not sure No
Could you say why?
Lack of founds devoted to this particular aim
* 16. Would you recommend the POP service to your colleagues?
Yes Possibly No
- 100 - 1 obbioly - 140
Thank you very much.
mank you very much.

Contribution ID: 4a43724b-d835-42c0-8d70-d26d5766540a

Date: 24/08/2021 12:34:49



POP Performance Assessment Evaluation

Fields marked with * are mandatory.	

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

*	1.	Report	Reference	Identifier
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POP2_AR_nnn (Indicated on the front page of the Performance Assessment Report)

116

* 2. Application name

TAU

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

*4. How was this Performance Assessment carried out?	
Very efficiently	
Rather efficiently (no major problem)	
Rather difficult (e.g. unreasonable delay, unexpected constraints,)	
Poorly conducted	
*5. How did you find the Performance Assessment Report?	
Clear and easy to understand	
Somewhat difficult to understand	
Not at all clear	
* 6. Did the recommendations just confirm what you knew from a previous analysis or by experience?	
© Yes	
No, I didn't suspect some of the problems revealed by this assessment	
No, because I had no idea about possible problems	
Which problems were unexpected?	
Inefficient use of simultaneous threads	
Lack of (or inefficient) use of vectorization	
Inefficient use of memory	
☐ Inefficient communications (MPI, I/O,)	
Poor scalability	
Load imbalance	
Other (please specify)	
	_
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate o person days/months)	t
3 days	
*8. Did POP fulfil your expectations?	
Entirely Partly Not enough Not at all	
*9. Overall, are you satisfied with this assessment?	
Very satisfied Satisfied Partly satisfied Not Satisfied	
*10. Are you happy for POP to publish the results of the Performance Assessment?	
Note: You will be able to review any article before it is published.	
Yes Yes, under certain conditions No	
*11. Would you be interested in receiving any training?	
∇es No	
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be	

refactored to address some of the issues found in the Performance Assessment)

© Yes
No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been
proposed) ?
Yes
Not yet
No, we don't plan to modify our code
The, we don't plan to mounty our code
When approximately, do you expect to have all needed modifications done and validated?
Please enter a date in the following format (DD/MM/YYYY)
l loade dittor à date in the leneving lemat (DD/IIIII/1111)
* 14. Do you have other applications for which a Performance Assessment would be useful?
© Yes
No
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment
service in the future? (After the end of the European Commission funded POP project.)
Yes Not sure No
Tes en not sure en no
Could you say why?
40 W 11
* 16. Would you recommend the POP service to your colleagues?
Yes Possibly No
Thank you very much.

Contribution ID: e61fbb4a-9c44-47f3-8eed-66ccf62141d4

Date: 24/09/2021 09:44:02



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

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* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP AR CLIO

* 2. Application name

CLIO

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

* 4. How was this Performance Assessment carried out?
Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
*5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
* 6. Did the recommendations just confirm what you know from a provious analysis or by experience?
* 6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
* 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of
person days/months)
5 person days
*8. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
* 9. Overall, are you satisfied with this assessment?
Very satisfied Satisfied Partly satisfied Not Satisfied
* 10. Are you happy for DOD to publish the regulte of the Derformance Assessment?
* 10. Are you happy for POP to publish the results of the Performance Assessment?
Note: You will be able to review any article before it is published. O Yes O Yes, under certain conditions O No
Yes Yes, under certain conditions Williams
* 11. Would you be interested in receiving any training?
Yes No
e res e no
Which kind of training does your team need?
Using extrae analysis tools
Osing extrae analysis tools
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be
refactored to address some of the issues found in the Performance Assessment)
O Yes
No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been
proposed) ?

Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated?
Please enter a date in the following format (DD/MM/YYYY)
01/09/2022
*14. Do you have other applications for which a Performance Assessment would be useful?
Yes
No
*15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) Yes Not sure No
Could you say why?
*16. Would you recommend the DOD consider to your collegeues?
*16. Would you recommend the POP service to your colleagues?
Yes Possibly No

Thank you very much.

Contact

Contribution ID: 05a5d3b9-10a5-4a2f-9bf4-b003eb1a0e3a

Date: 02/09/2021 22:41:20



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR 119

* 2. Application name

OpenFOAM + in-house library

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

* 4. How was this Performance Assessment carried out?	
Very efficiently	
Rather efficiently (no major problem)	
Rather difficult (e.g. unreasonable delay, unexpected constraints,)	
Poorly conducted	
*5. How did you find the Performance Assessment Report?	
Clear and easy to understand	
Somewhat difficult to understand	
Not at all clear	
* 6. Did the recommendations just confirm what you knew from a previous analysis or by experience?	
Yes	
No, I didn't suspect some of the problems revealed by this assessment	
No, because I had no idea about possible problems	
Two, because that he laca about possible problems	
Which problems were unexpected?	
☐ Inefficient use of simultaneous threads	
Lack of (or inefficient) use of vectorization	
☐ Inefficient use of memory	
Inefficient communications (MPI, I/O,)	
Poor scalability	
Load imbalance	
Other (please specify)	
* 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of	of
person days/months)	
3 days	
*8. Did POP fulfil your expectations?	
Entirely Partly Not enough Not at all	
*9. Overall, are you satisfied with this assessment?	
Very satisfied Satisfied Partly satisfied Not Satisfied	
# 10. Are you begins for DOD to multiple the recycles of the Dorformores Accessment?	
* 10. Are you happy for POP to publish the results of the Performance Assessment?	
Note: You will be able to review any article before it is published.	
Yes Yes, under certain conditions No	
Under which conditions (in addition to the review of the article before publication)?	
,	

	Refactoring techniques
	Titolactoring teeriniques
* 12.	Are you interested in a Proof-of-Concept service? (to better understand how your application can be
	actored to address some of the issues found in the Performance Assessment)
(Yes
(No, I have got enough information
prop	Do you have a plan to modify your code (taking into account the recommendations that have been bosed)?
(O Yes
	Not yet
(No, we don't plan to modify our code
* 14.	Do you have other applications for which a Performance Assessment would be useful?
(Yes
(No
* 15.	Based on this experience, would your organisation be prepared to pay for a Performance Assessment
	vice in the future? (After the end of the European Commission funded POP project.)
	○ Yes ○ Not sure ○ No
Cou	ıld you say why?
	Funding
	Would you recommend the POP service to your colleagues?
(Yes Possibly No
The	ank you very much.
1 [] [,

* 11. Would you be interested in receiving any training?

Contribution ID: 6ec0d2c4-5b50-45da-899d-723758cba197

Date: 28/09/2021 11:39:10



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR 120

* 2. Application name

Polar Scat Assessment

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

*4. How was this Performance Assessment carried out?
Very efficiently
Rather efficiently (no major problem)
Rather difficult (e.g. unreasonable delay, unexpected constraints,)
Poorly conducted
*5. How did you find the Performance Assessment Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
*6. Did the recommendations just confirm what you knew from a previous analysis or by experience?
© Yes
No, I didn't suspect some of the problems revealed by this assessment
No, because I had no idea about possible problems
Which problems were unexpected?
Inefficient use of simultaneous threads
✓ Lack of (or inefficient) use of vectorization
☐ Inefficient use of memory
☐ Inefficient communications (MPI, I/O,)
Poor scalability
Load imbalance
Other (please specify)
Circl (please specify)
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months)
total of the order of one day (preparation of the code, discussions, study of report)
total of the order of one day (preparation of the code, discussions, study of report)
*8. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
Entirely Farily Not enough Not at all
*9. Overall, are you satisfied with this assessment?
Very satisfied Satisfied Partly satisfied Not Satisfied
* 10. Are you happy for POP to publish the results of the Performance Assessment?
Note: You will be able to review any article before it is published.
Yes Yes, under certain conditions No
*11. Would you be interested in receiving any training?
Yes No
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be
refactored to address some of the issues found in the Performance Assessment)

Yes
No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been
proposed) ?
Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated?
Please enter a date in the following format (DD/MM/YYYY)
It will depned on the results of the Proof_of_Concept service
it will depried on the results of the Proof_of_Concept service
*14. Do you have other applications for which a Performance Assessment would be useful?
Yes
O No
How many and when do you plan to get them assessed?
mainly and other application, but it needs a lot of code cleaning before being submitted (maybe for DOP2 :))
mainly one other application, but it needs a lot of code cleaning before being submitted (maybe for POP3 ;-))
*15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment
service in the future? (After the end of the European Commission funded POP project.)
○ Yes ○ Not sure ○ No
Could you say why?
It would depend on the prices and the server and invalid the few fronting on most of an AND or Ellipseight
It would depend on the prices, and the corresponding elligibility for funding as part of an ANR or EU project
*16. Would you recommend the POP service to your colleagues?
Yes Possibly No
Thank you very much.

Contribution ID: 7986d9de-8279-4963-97f6-160694946196

Date: 28/09/2021 16:00:21



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR 121

* 2. Application name

SPH-flow explorer

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

* 4. How was this Performance Assessment carried out?	
Very efficiently	
Rather efficiently (no major problem)	
Rather difficult (e.g. unreasonable delay, unexpected constraints,)	
Poorly conducted	
*5. How did you find the Performance Assessment Report?	
Clear and easy to understand	
Somewhat difficult to understand	
Not at all clear	
*6. Did the recommendations just confirm what you knew from a previous analysis or by experience?	
O Yes	
No, I didn't suspect some of the problems revealed by this assessment	
No, because I had no idea about possible problems	
Which problems were unexpected?	
Inefficient use of simultaneous threads	
Lack of (or inefficient) use of vectorization	
Inefficient use of memory	
✓ Inefficient communications (MPI, I/O,)	
Poor scalability	
Load imbalance	
□ Load imbalance☑ Other (please specify)	
☑ Other (please specify)	
✓ Other (please specify) Which other problems?	
✓ Other (please specify) Which other problems?	
Which other problems? IPC issues	
Which other problems? IPC issues * 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of	
 ✓ Other (please specify) Which other problems? IPC issues *7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 	
 ✓ Other (please specify) Which other problems? IPC issues *7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 	
Which other problems? IPC issues *7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 5 person days	
 Other (please specify) Which other problems? IPC issues *7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 5 person days *8. Did POP fulfil your expectations? 	
 Other (please specify) Which other problems? IPC issues *7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 5 person days *8. Did POP fulfil your expectations? 	
 ✓ Other (please specify) Which other problems? IPC issues *7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 5 person days *8. Did POP fulfil your expectations? ⑥ Entirely ○ Partly ○ Not enough ○ Not at all 	
 ✓ Other (please specify) Which other problems? IPC issues *7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 5 person days *8. Did POP fulfil your expectations? ⑥ Entirely ⑥ Partly ⑥ Not enough ⑥ Not at all *9. Overall, are you satisfied with this assessment? 	
 ✓ Other (please specify) Which other problems? IPC issues *7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 5 person days *8. Did POP fulfil your expectations? ⑥ Entirely ⑥ Partly ⑥ Not enough ⑥ Not at all *9. Overall, are you satisfied with this assessment? 	
 ✓ Other (please specify) Which other problems? IPC issues * 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 5 person days * 8. Did POP fulfil your expectations? ⑥ Entirely ⑥ Partly ⑥ Not enough ⑥ Not at all * 9. Overall, are you satisfied ŵ Ith is assessment? ⑥ Very satisfied ⑨ Satisfied ⑥ Partly satisfied ⑥ Not Satisfied * 10. Are you happy for POP to publish the results of the Performance Assessment? 	
 ✓ Other (please specify) Which other problems? IPC issues *7. How much effort was required from you to complete this Performance Assessment? (rough estimate of person days/months) 5 person days *8. Did POP fulfil your expectations? ② Entirely ② Partly ③ Not enough ③ Not at all *9. Overall, are you satisfied with this assessment? ③ Very satisfied ③ Satisfied ◎ Partly satisfied ◎ Not Satisfied 	

*11. Would you be interested in receiving any training? © Yes No
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Output Output Description:
No, I have got enough information
*13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)?
Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated?
Please enter a date in the following format (DD/MM/YYYY)
Some modifications were done along the assessment
* 14. Do you have other applications for which a Performance Assessment would be useful? O Yes No How many and when do you plan to get them assessed?
At least one, in the upcoming year
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes Not sure No
Could you say why?
This should be checked with our hierarchy
* 16. Would you recommend the POP service to your colleagues? Yes Possibly No
Thank you very much.

Contribution ID: 823c93ce-5ed2-4bef-8d1d-0d28a15ad759

Date: 20/09/2021 09:46:21



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

*	1.	Report	Reference	Identifier
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POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR nnn CoEC

* 2. Application name

Disco

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

1	Very efficiently
	Rather efficiently (no major problem)
	Rather difficult (e.g. unreasonable delay, unexpected constraints,)Poorly conducted
	only conducted
* 5. H	low did you find the Performance Assessment Report?
	Clear and easy to understand
	Somewhat difficult to understand
	Not at all clear
* 6. D	oid the recommendations just confirm what you knew from a previous analysis or by experience?
	O Yes
	No, I didn't suspect some of the problems revealed by this assessment
	No, because I had no idea about possible problems
Whi	ch problems were unexpected?
	Inefficient use of simultaneous threads
	Lack of (or inefficient) use of vectorization
	Inefficient use of memory
	☐ Inefficient communications (MPI, I/O,)
	Poor scalability
	Load imbalance
	Other (please specify)
	low much effort was required from you to complete this Performance Assessment? (rough estimate of
pers	
7010	son days/months)
	4 days
	4 days
* 8. 🗅	4 days Did POP fulfil your expectations?
* 8. 🗅	4 days
* 8. D	4 days Did POP fulfil your expectations?
* 8. D	4 days Did POP fulfil your expectations? Entirely Partly Not enough Not at all
* 8. D	4 days Did POP fulfil your expectations? Entirely Partly Not enough Not at all Did Pop fulfil your expectations?
* 8. D * 9. C	4 days Did POP fulfil your expectations? Entirely Partly Not enough Not at all Diverall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied
* 8. D	Are you happy for POP to publish the results of the Performance Assessment?
* 8. D * 9. C	Are you happy for POP to publish the results of the Performance Assessment? e: You will be able to review any article before it is published.
* 8. D * 9. C	4 days Did POP fulfil your expectations? Entirely Partly Not enough Not at all Overall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied Are you happy for POP to publish the results of the Performance Assessment? The You will be able to review any article before it is published. Yes Yes, under certain conditions No
* 8. D * 9. C	4 days Did POP fulfil your expectations? Entirely Partly Not enough Not at all Overall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied Are you happy for POP to publish the results of the Performance Assessment? The You will be able to review any article before it is published. Yes Yes, under certain conditions No

*4. How was this Performance Assessment carried out?

♥ Yes ♥ No
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Output Performance Assessment No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)? One is a plan to modify your code (taking into account the recommendations that have been proposed)? Not yes No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated? Please enter a date in the following format (DD/MM/YYYY)
1 year
* 14. Do you have other applications for which a Performance Assessment would be useful? O Yes No
*15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes Not sure No
Could you say why?
Others offfer it for free
*16. Would you recommend the POP service to your colleagues? © Yes Possibly No
Could you say why?
Why not? It was helpful.
Thank you very much.

*11. Would you be interested in receiving any training?

Contact

Contribution ID: ac7b9fbc-c27a-4be9-b583-d863088cb6d9

Date: 24/09/2021 08:35:25



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

*	1.	Report	Reference	Identifier
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POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR 125

* 2. Application name

Octopus

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

*4. How was this Performance Assessment carried out?	
Very efficiently	
Rather efficiently (no major problem)	
Rather difficult (e.g. unreasonable delay, unexpected constraints,)	
Poorly conducted	
*5. How did you find the Performance Assessment Report?	
Clear and easy to understand	
Somewhat difficult to understand	
Not at all clear	
*6. Did the recommendations just confirm what you knew from a previous analys	is or by experience?
O Yes	
No, I didn't suspect some of the problems revealed by this assessment	
No, because I had no idea about possible problems	
Which problems were unexpected?	
Inefficient use of simultaneous threads	
Lack of (or inefficient) use of vectorization	
☐ Inefficient use of memory	
☐ Inefficient communications (MPI, I/O,)	
Poor scalability	
✓ Load imbalance	
Other (please specify)	
Other (please specify)	
*7. How much effort was required from you to complete this Performance Assess	sment? (rough estimate of
person days/months)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
one day a month	
*8. Did POP fulfil your expectations?	
Entirely Partly Not enough Not at all	
*9. Overall, are you satisfied with this assessment?	
Very satisfied Satisfied Partly satisfied Not Satisfied	
* 10. Are you happy for POP to publish the results of the Performance Assessme	nt?
Note: You will be able to review any article before it is published.	
Yes Yes, under certain conditions No	
*11. Would you be interested in receiving any training?	
○ Yes No	
*12. Are you interested in a Proof-of-Concept service? (to better understand how	vour application can be

refactored to address some of the issues found in the Performance Assessment)

○ Yes
No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been
proposed) ?
Yes
Not yet
No, we don't plan to modify our code
-,,,,,
When approximately, do you expect to have all needed modifications done and validated?
Please enter a date in the following format (DD/MM/YYYY)
01/01/2023
* 14. Do you have other applications for which a Performance Assessment would be useful?
© Yes
No
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment
service in the future? (After the end of the European Commission funded POP project.)
Yes Not sure No
Yes Not sure No
Could you say why?
We have internal performance tool and collaborator, and this would be prefered against a service to be
payed.
* 16. Would you recommend the POP service to your colleagues?
Yes Possibly No
Thank you very much.

Contribution ID: f48c8103-6113-4c93-ba1e-a2b6c9c603f7

Date: 08/11/2021 08:56:43



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

*	1.	Report	Reference	Identifier
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POP2_AR_nnn (Indicated on the front page of the Performance Assessment Report)

POP AR 126

* 2. Application name

NSMB

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

* 4. How was this Performance Assessment carried out?			
Very efficiently			
Rather efficiently (no major problem)			
Rather difficult (e.g. unreasonable delay, unexpected constraints,)			
Poorly conducted			
*5. How did you find the Performance Assessment Report?			
Clear and easy to understand			
Somewhat difficult to understand			
Not at all clear			
*6. Did the recommendations just confirm what you knew from a previous analysis or by experience?			
Yes			
No, I didn't suspect some of the problems revealed by this assessment			
No, because I had no idea about possible problems			
* 7. How much effort was required from you to complete this Performance Assessment? (rough estimate of			
person days/months)			
2 days			
* 8 Did POP fulfil your expectations?			
*8. Did POP fulfil your expectations?			
*8. Did POP fulfil your expectations? © Entirely © Partly © Not enough © Not at all			
Entirely Partly Not enough Not at all			
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? 			
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied 			
 Entirely Partly Not enough Not at all * 9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied * 10. Are you happy for POP to publish the results of the Performance Assessment? 			
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied 			
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. 			
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No 			
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No *11. Would you be interested in receiving any training? 			
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No 			
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No *11. Would you be interested in receiving any training? Yes No 			
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No *11. Would you be interested in receiving any training? Yes No *12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be 			
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No *11. Would you be interested in receiving any training? Yes No *12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) 			
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No *11. Would you be interested in receiving any training? Yes No *12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Yes 			
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No *11. Would you be interested in receiving any training? Yes No *12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) 			
 Entirely Partly Not enough Not at all 9. Overall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No *11. Would you be interested in receiving any training? Yes No *12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Yes No, I have got enough information 			
 Entirely Partly Not enough Not at all 9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No *11. Would you be interested in receiving any training? Yes No *12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Yes No, I have got enough information *13. Do you have a plan to modify your code (taking into account the recommendations that have been 			
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No *11. Would you be interested in receiving any training? Yes No *12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Yes No, I have got enough information *13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)? 			
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No *11. Would you be interested in receiving any training? Yes No *12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Yes No, I have got enough information *13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)? Yes 			
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Satisfied Partly satisfied Not Satisfied *10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No *11. Would you be interested in receiving any training? Yes No *12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Yes No, I have got enough information *13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)? 			

When approximately, do you expect to have all needed modifications done and validated? Please enter a date in the following format (DD/MM/YYYYY)	
in 6 month	
* 14. Do you have other applications for which a Performance Assessment would be useful? O Yes No	
*15. Based on this experience, would your organisation be prepared to pay for a Performance Assessme service in the future? (After the end of the European Commission funded POP project.) © Yes Not sure No	nt
Could you say why?	
Always the money issue and for me the job has already been done	
* 16. Would you recommend the POP service to your colleagues? Yes Possibly No	

Thank you very much.

Contact

Contribution ID: 484fbe42-85fe-442c-a4b7-09249f3ab3f6

Date: 28/10/2021 12:42:27



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

*	1.	Report	Reference	Identifier
---	----	--------	-----------	------------

POP2_AR_nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR 130

* 2. Application name

Alya

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

* 4. How was this Performance Assessment carried out?			
Very efficiently			
Rather efficiently (no major problem)			
Rather difficult (e.g. unreasonable delay, unexpected constraints,)			
Poorly conducted			
*5. How did you find the Performance Assessment Report?			
Clear and easy to understand			
Somewhat difficult to understand			
Not at all clear			
* 6. Did the recommendations just confirm what you knew from a previous analysis or by experience?			
Yes			
No, I didn't suspect some of the problems revealed by this assessment			
No, because I had no idea about possible problems			
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of			
person days/months)			
5 Person days			
+ 0. Did DOD fulfil varus averagetations 2			
* 8. Did POP fulfil your expectations?			
*8. Did POP fulfil your expectations? © Entirely © Partly © Not enough © Not at all			
*8. Did POP fulfil your expectations? © Entirely © Partly © Not enough © Not at all			
Entirely Partly Not enough Not at all			
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? 			
Entirely Partly Not enough Not at all			
 Entirely Partly Not enough Not at all *9. Overall, are you satisfied with this assessment? Very satisfied Partly satisfied Not Satisfied 			
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P16	ease enter a date in the following format (DD/MM/YYYY) In 3 months
* 14.	Do you have other applications for which a Performance Assessment would be useful? Ves No
	Based on this experience, would your organisation be prepared to pay for a Performance Assessment vice in the future? (After the end of the European Commission funded POP project.) Yes Not sure No
Co	uld you say why?
	Depends on policies that are out of my control, this activity has been carried out within an EU funded project, we should see if part of such funding could be used to pay for this services in the future
* 16.	Would you recommend the POP service to your colleagues? Yes Possibly No

Thank you very much.

Contact

Contribution ID: 8a014c81-a6f1-429a-b64f-cf9c7c5efdbb

Date: 24/11/2021 00:42:05



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR 134

* 2. Application name

ABINIT

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

*4. How was this Performance Assessment carried out?	
Very efficiently	
Rather efficiently (no major problem)	
Rather difficult (e.g. unreasonable delay, unexpected constraints,)	
Poorly conducted	
*5. How did you find the Performance Assessment Report?	
Clear and easy to understand	
 Somewhat difficult to understand 	
Not at all clear	
*6. Did the recommendations just confirm what you knew from a previous analysis or by experience?	
Yes	
No, I didn't suspect some of the problems revealed by this assessment	
No, because I had no idea about possible problems	
Which problems were unexpected?	
Inefficient use of simultaneous threads	
Lack of (or inefficient) use of vectorization	
Inefficient use of memory	
✓ Inefficient communications (MPI, I/O,)	
Poor scalability	
Load imbalance	
Other (please specify)	
*7. How much effort was required from you to complete this Performance Assessment? (rough estimate of	
person days/months)	
	_
one month	
*8. Did POP fulfil your expectations?	
Entirely Partly Not enough Not at all	
*9. Overall, are you satisfied with this assessment?	
Very satisfied Satisfied Partly satisfied Not Satisfied	
* 10. Are you happy for POP to publish the results of the Performance Assessment?	
Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No	
Yes Yes, under certain conditions Vivo	
*11. Would you be interested in receiving any training?	
© Yes ⊚ No	
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be	

refactored to address some of the issues found in the Performance Assessment)

No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)?
Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated?
Please enter a date in the following format (DD/MM/YYYY)
1-2 months
*14. Do you have other applications for which a Performance Assessment would be useful? Yes No
How many and when do you plan to get them assessed?
well, it's the same application but there are several drivers i.e. different kind of calculations that may benefit from a POP analysis
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes Not sure No
Could you say why?
It depends on the availability of monetary resources allocated by my research group for this kind of projects.
*16. Would you recommend the POP service to your colleagues? Yes Possibly No
Thank you very much.
Contact

Yes

Contribution ID: cb0befd1-b11a-4411-b0a6-a07da2605ae4

Date: 24/11/2021 14:57:41



POP Performance Assessment Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Performance Assessment service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 AR nnn (Indicated on the front page of the Performance Assessment Report)

POP2 AR 135

* 2. Application name

PLUMED

- *3. Who collected the performance analysis data?
 - Yourselves
 - Yourselves with the help of a POP performance analysis expert
 - A POP performance analysis expert

* 4. Ho	w was this Performance Assessment carried out?
0	Very efficiently
0	Rather efficiently (no major problem)
0	Rather difficult (e.g. unreasonable delay, unexpected constraints,)
0	Poorly conducted
* 5. Ho	ow did you find the Performance Assessment Report?
0	Clear and easy to understand
0	Somewhat difficult to understand
0	Not at all clear
	d the recommendations just confirm what you knew from a previous analysis or by experience?
0	Yes
0	No, I didn't suspect some of the problems revealed by this assessment
0	No, because I had no idea about possible problems
1A/I-1	
Whic	h problems were unexpected?
	Inefficient use of simultaneous threads
	Lack of (or inefficient) use of vectorization
	Inefficient use of memory
	Inefficient communications (MPI, I/O,)
	Poor scalability
	Load imbalance
V	Other (please specify)
Whic	h other problems?
	The locations of specific hotspots and their poor implementation.
* 7. Hc	ow much effort was required from you to complete this Performance Assessment? (rough estimate of
	on days/months)
	virtually none (one meeting and a few e-mails)
	virtually florie (one frieeting and a few e-frialis)
* 8. Did	d POP fulfil your expectations?
0	Dentirely ● Partly ● Not enough ● Not at all
Any	suggestions for improvement of the Performance Assessment?

*9. Overall, are you satisfied with this assessment?

○ Very satisfied ○ Satisfied ○ Partly satisfied ○ Not Satisfied
* 10. Are you happy for POP to publish the results of the Performance Assessment? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No
* 11. Would you be interested in receiving any training? © Yes No
* 12. Are you interested in a Proof-of-Concept service? (to better understand how your application can be refactored to address some of the issues found in the Performance Assessment) Output Performance Assessment No, I have got enough information
* 13. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)? Output Not yet No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated? Please enter a date in the following format (DD/MM/YYYY) 01/02/2022
* 14. Do you have other applications for which a Performance Assessment would be useful? O Yes No
* 15. Based on this experience, would your organisation be prepared to pay for a Performance Assessment service in the future? (After the end of the European Commission funded POP project.) O Yes Not sure No Could you say why?
I don't know enough about the finances of my organization to be able to answer this question (I also don't know what the cost would be for such a service).
* 16. Would you recommend the POP service to your colleagues? Yes Possibly No
Thank you very much.

Contact



D3.3 Final Customer Feedback Report Annex 2, Proof of Concept Survey Version 1

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Contributor(s)	S. Ben Chaabane (Teratec)
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Date: 24/04/2020 16:24:39



POP Proof of Concept Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Proof of Concept (PoC) service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 PoCR nnn (Indicated on the front page of the Proof of Concept Report)

POP2_PoCR_01

* 2. Application name

GALES

- *3. How was this Proof of concept carried out?
 - Very efficiently
 - Rather efficiently (no major problem)
 - Rather difficult (e.g. unreasonable delay, unexpected constraints, ...)
 - Poorly conducted

* 4. How did you find the Proof of Concept Report?	
Clear and easy to understand	
Somewhat difficult to understand	
Not at all clear	
- Not at an oldar	
* 5. How much effort was required from you to complete this Proof of Concept? (rou days/months)	igh estimate of person
I did nothing.	
6. Did DOD fulfil your expectations?	
6. Did POP fulfil your expectations?	
Entirely Partly Not enough Not at all	
* 7. Overall, are you satisfied with this Proof-of Concept?	
Very satisfied Satisfied Partly satisfied Not Satisfied	
*8. Are you happy for POP to publish the results of this Proof of Concept?	
Note: You will be able to review any article before it is published.	
Yes Yes, under certain conditions No	
* 9. Would you be interested in receiving any training?	
Yes No	
Tes WIND	
* 10. Do you have a plan to modify your code (taking into account the recommenda	tions that have been
proposed) ?	
Yes	
Not yet	
No, we don't plan to modify our code	
Ad Donath and Burgarian Continue De Construction De	. (. (0
* 11. Do you have other applications for which a Performance Assessment or a Pro- useful?	of of Concept would be
© Yes	
No	
• NO	
* 12. Based on this experience, would your organisation be prepared to pay for a P	roof of Concept service in
the future? (After the end of the European Commission funded POP project.)?	·
Yes Not sure No	
* 13. Would you recommend the POP service to your colleagues?	
Yes	
Possibly	
O No	

Thank you very much.

Contact

Contribution ID: 826de9db-9383-4fbb-9071-a42c13b192cb

Date: 25/05/2020 14:10:33



POP Proof of Concept Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Proof of Concept (PoC) service** which has been carried out by POP experts to help you optimise your application.

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2 PoCR nnn (Indicated on the front page of the Proof of Concept Report)

POP2 POCR 002

* 2. Application name

Blender Cycles

- *3. How was this Proof of concept carried out?
 - Very efficiently
 - Rather efficiently (no major problem)
 - Rather difficult (e.g. unreasonable delay, unexpected constraints, ...)
 - Poorly conducted

* 4. How did you find the Proof of Concept Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
*5. How much effort was required from you to complete this Proof of Concept? (rough estimate of person days/months)
5 days
6. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
Entirely & Farty & Not enough & Not at all
*7. Overall, are you satisfied with this Proof-of Concept?
 Very satisfied Satisfied Partly satisfied Not Satisfied
*8. Are you happy for POP to publish the results of this Proof of Concept?
Note: You will be able to review any article before it is published.
Yes Yes, under certain conditions No
⋆9. Would you be interested in receiving any training?
O Yes No
*10. Do you have a plan to modify your code (taking into account the recommendations that have been
proposed) ?
Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated?
Please enter a date in the following format (DD/MM/YYYY)
*11. Do you have other applications for which a Performance Assessment or a Proof of Concept would be
useful?
O Yes
No
*12. Based on this experience, would your organisation be prepared to pay for a Proof of Concept service
the future? (After the end of the European Commission funded POP project.)?
○ Yes ○ Not sure ○ No
- 100 - 1101 0010 - 110
+10. Mould you recommend the DOD comiles to visit as the serves of
*13. Would you recommend the POP service to your colleagues?
Yes
Possibly



Thank you very much.

Contact

Contribution ID: 170a2766-c407-413a-8896-355ada6da925

Date: 15/09/2020 18:59:15



POP Proof of Concept Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Proof of Concept (PoC) service** which has been carried out by POP experts to help you optimise your application.

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2_PoCR_nnn (Indicated on the front page of the Proof of Concept Report)

POP2 AR 024

* 2. Application name

CHORUS

- *3. How was this Proof of concept carried out?
 - Very efficiently
 - Rather efficiently (no major problem)
 - Rather difficult (e.g. unreasonable delay, unexpected constraints, ...)
 - Poorly conducted

*4. How did you find the Proof of Concept Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
*5. How much effort was required from you to complete this Proof of Concept? (rough estimate of person
days/months)
0.5 days/months
6. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
Entirely Partiy Not enough Not at all
*7. Overall, are you satisfied with this Proof-of Concept?
Very satisfied Satisfied Partly satisfied Not Satisfied
*8. Are you happy for POP to publish the results of this Proof of Concept?
Note: You will be able to review any article before it is published.
Yes Yes, under certain conditions No
*9. Would you be interested in receiving any training?
Yes No
Which kind of training does your team need?
Wind than g doos your tourn need.
*10. Do you have a plan to modify your code (taking into account the recommendations that have been
proposed) ?
Yes
Not yet
No, we don't plan to modify our code
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated?
Please enter a date in the following format (DD/MM/YYYY)
01/01/2021
*11. Do you have other applications for which a Performance Assessment or a Proof of Concept would be
useful?
O Yes
No
*12. Based on this experience, would your organisation be prepared to pay for a Proof of Concept service in

the future? (After the end of the European Commission funded POP project.)?

	Yes		Not sure	0	No
--	-----	--	----------	---	----

- *13. Would you recommend the POP service to your colleagues?
 - Yes
 - Possibly
 - O No

Thank you very much.

Contact

Contribution ID: 4e9f99bb-ee96-4f12-a284-d10d73cda125

Date: 18/10/2020 19:12:26



POP Proof of Concept Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

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As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report	Reference	Identifier
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POP2_PoCR_nnn (Indicated on the front page of the Proof of Concept Report)

XX - tbd

* 2. Application name

CalculiX

- *3. How was this Proof of concept carried out?
 - Very efficiently
 - Rather efficiently (no major problem)
 - Rather difficult (e.g. unreasonable delay, unexpected constraints, ...)
 - Poorly conducted

* 4. How did you find the Proof of Concept Report? Output Ou
*5. How much effort was required from you to complete this Proof of Concept? (rough estimate of person days/months)
1 person day
6. Did POP fulfil your expectations? © Entirely © Partly © Not enough © Not at all
*7. Overall, are you satisfied with this Proof-of Concept? ● Very satisfied ● Partly satisfied ● Not Satisfied
*8. Are you happy for POP to publish the results of this Proof of Concept? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No
*9. Would you be interested in receiving any training? © Yes No
* 10. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)? O Yes Not yet No, we don't plan to modify our code
*11. Do you have other applications for which a Performance Assessment or a Proof of Concept would be useful? O Yes No
How many and when do you plan to get them assessed?
One other application (CBS Method for CFD-Calculations in CalculiX) is being looked at
*12. Based on this experience, would your organisation be prepared to pay for a Proof of Concept service in the future? (After the end of the European Commission funded POP project.)? O Yes O Not sure O No
*13. Would you recommend the POP service to your colleagues? © Yes

Possibly	/
----------	---

O No

Thank you very much.

Contact

Contribution ID: 465e2d30-2e5d-4be0-8437-1432298dab4f

Date: 28/08/2020 15:32:12



POP Proof of Concept Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

This survey is intended to assess the quality of the **Proof of Concept (PoC) service** which has been carried out by POP experts to help you optimise your application.

As stated in the <u>Terms and Conditions</u>, if you become a POP user you agree to give us feedback on the quality of the service you obtain from POP, and grant us permission to publish statistical information on the percentage of potential performance improvement, the potential savings and other equivalent metrics that measure the results and impact of the POP service. POP undertakes that all such data will be anonymised before publication, and that we will not publish any other information concerning the service that we are providing to you without your explicit permission. For more details please see our full <u>Data Privacy Policy</u>.

Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2_PoCR_nnn (Indicated on the front page of the Proof of Concept Report)

POP2 POCR 006

* 2. Application name

Gloria (compressible flow solver)

- *3. How was this Proof of concept carried out?
 - Very efficiently
 - Rather efficiently (no major problem)
 - Rather difficult (e.g. unreasonable delay, unexpected constraints, ...)
 - Poorly conducted

*4. How did you find the Proof of Concept Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
*5. How much effort was required from you to complete this Proof of Concept? (rough estimate of person
days/months)
1
6. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
Entirely Partiy Not enough Not at all
* 7. Overall, are you satisfied with this Proof-of Concept?
Very satisfied Satisfied Partly satisfied Not Satisfied
Very Satisfied O datisfied O Farty Satisfied O Not Gatisfied
*8. Are you happy for POP to publish the results of this Proof of Concept?
Note: You will be able to review any article before it is published.
Yes Yes, under certain conditions No
*9. Would you be interested in receiving any training?
Yes No
Which kind of training does your team need?
on code analysis and tracing software
*10. Do you have a plan to madify your gode (taking into account the recommendations that have been
*10. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)?
Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated?
Please enter a date in the following format (DD/MM/YYYY)
Most of the modifications have been implemented during the assessment. Further and deeper modifications have been planned to be completed roughly before 30/06/2021
That's seen plainted to be completed roughly before 60/00/2021
*11. Do you have other applications for which a Performance Assessment or a Proof of Concept would be
useful?

How many and when do you plan to get them assessed?

2

2. Not so soon, they are still under development.
*12. Based on this experience, would your organisation be prepared to pay for a Proof of Concept service in
the future? (After the end of the European Commission funded POP project.)?
Yes Not sure No
About how much could you or would you be willing to pay for this service?
Taking as reference the sum your organisation is used to paying for other expert services
10000 euros
*13. Would you recommend the POP service to your colleagues?
Yes
Possibly
O No
Thank you very much.

Contact

Contribution ID: ca852778-7a58-4460-af0d-d4ad0cfaa145

Date: 03/08/2020 09:14:44



POP Proof of Concept Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2_PoCR_nnn (Indicated on the front page of the Proof of Concept Report)

POP2 POCR 007

* 2. Application name

SCEMa (DeaLAMMPS)

- *3. How was this Proof of concept carried out?
 - Very efficiently
 - Rather efficiently (no major problem)
 - Rather difficult (e.g. unreasonable delay, unexpected constraints, ...)
 - Poorly conducted

*4. How did you find the Proof of Concept Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
*5. How much effort was required from you to complete this Proof of Concept? (rough estimate of person
days/months)
3
3
6. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
*7. Overall, are you satisfied with this Proof-of Concept?
Very satisfied Satisfied Partly satisfied Not Satisfied
40. And were because for DOD to each light the grounds of their Durof of Occasion
*8. Are you happy for POP to publish the results of this Proof of Concept?
Note: You will be able to review any article before it is published.
Tes Tes, under certain conditions Tho
* 9. Would you be interested in receiving any training?
○ Yes ○ No
163
* 10. Do you have a plan to modify your code (taking into account the recommendations that have been
proposed) ?
© Yes
Not yet
No, we don't plan to modify our code
Two, we don't plan to modify our code
* 11. Do you have other applications for which a Performance Assessment or a Proof of Concept would be
useful?
O Yes
No
*12. Based on this experience, would your organisation be prepared to pay for a Proof of Concept service in
the future? (After the end of the European Commission funded POP project.)?
Yes Not sure No
About how much could you or would you be willing to pay for this service?
Taking as reference the sum your organisation is used to paying for other expert services
* 12. Would you recommend the POP consider to your colleggues?
*13. Would you recommend the POP service to your colleagues?
□ 1€5

Possibly	/
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O No

Thank you very much.

Contact

Contribution ID: 8fc49fde-968b-4194-9f99-e94bf6fd4eab

Date: 11/02/2021 13:22:36



POP Proof of Concept Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

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* 1. Report Reference Identifier

POP2_PoCR_nnn (Indicated on the front page of the Proof of Concept Report)

POP2 POCR 008

* 2. Application name

Proof-of-Concept Report Alya

- *3. How was this Proof of concept carried out?
 - Very efficiently
 - Rather efficiently (no major problem)
 - Rather difficult (e.g. unreasonable delay, unexpected constraints, ...)
 - Poorly conducted

* 4. How did you find the Proof of Concept Report? Output Ou
*5. How much effort was required from you to complete this Proof of Concept? (rough estimate of person days/months)
few hours
6. Did POP fulfil your expectations? © Entirely © Partly © Not enough © Not at all
*7. Overall, are you satisfied with this Proof-of Concept? ● Very satisfied ● Partly satisfied ● Not Satisfied
*8. Are you happy for POP to publish the results of this Proof of Concept? Note: You will be able to review any article before it is published. O Yes Yes, under certain conditions No
*9. Would you be interested in receiving any training? © Yes No
* 10. Do you have a plan to modify your code (taking into account the recommendations that have been proposed) ? O Yes Not yet No, we don't plan to modify our code
*11. Do you have other applications for which a Performance Assessment or a Proof of Concept would be useful? © Yes No
How many and when do you plan to get them assessed?
few more, we are under discussion
* 12. Based on this experience, would your organisation be prepared to pay for a Proof of Concept service in the future? (After the end of the European Commission funded POP project.)? O Yes O Not sure No
* 13. Would you recommend the POP service to your colleagues? Yes

Possibly	/
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O No

Thank you very much.

Contact

Contribution ID: 1e8dc8aa-ade9-4528-973a-15be4e08b9aa

Date: 12/11/2020 11:31:58



POP Proof of Concept Evaluation

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Welcome and thank you in advance for answering this survey

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

 * 1. Report Reference Identifie 	ier
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POP2_PoCR_nnn (Indicated on the front page of the Proof of Concept Report)

POP2 POCR 010

* 2. Application name

PVHA WF

- *3. How was this Proof of concept carried out?
 - Very efficiently
 - Rather efficiently (no major problem)
 - Rather difficult (e.g. unreasonable delay, unexpected constraints, ...)
 - Poorly conducted

* 4. How did you find the Proof of Concept Report?
© Clear and easy to understand
Somewhat difficult to understand
Not at all clear
* 5. How much effort was required from you to complete this Proof of Concept? (rough estimate of person
days/months)
days/montris)
several days
6. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
2 Entiroly 2 Partly 2 Not onlong!
* 7. Overall, are you satisfied with this Proof-of Concept?
Very satisfied Satisfied Partly satisfied Not Satisfied
very satisfied Satisfied Party satisfied Not Satisfied
+ 9. Are you happy for DOD to publish the regults of this Dreef of Concept?
* 8. Are you happy for POP to publish the results of this Proof of Concept?
Note: You will be able to review any article before it is published.
Yes Yes, under certain conditions No
Under which conditions (in addition to the review of the article before publication)?
This work is part of the project ChEESE, so I do not have the authority to decide that. It should be consulted.
* 9. Would you be interested in receiving any training?
Yes No
Tes Vivo
± 10. Do you have a plan to madify your and of taking into account the recommendations that have been
* 10. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)?
Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated?
Please enter a date in the following format (DD/MM/YYYY)
11/2020
Add Da van have albeen applications for 1111 a Da financial Association Da financial
* 11. Do you have other applications for which a Performance Assessment or a Proof of Concept would be
useful?
O Yes
No

12. Based on this experience, would your organisation be prepared to pay for a Proof of Concept service
the future? (After the end of the European Commission funded POP project.)?
○ Yes ○ Not sure ○ No
* 13. Would you recommend the POP service to your colleagues?
Yes
Possibly
O No

Thank you very much.

Contact

Contribution ID: 6425fd58-2ae6-4ecc-b1a8-b6469b72813d

Date: 06/05/2021 05:49:22



POP Proof of Concept Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

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Your feedback is quite important because it will help us to improve the quality and efficiency of the POP services.

* 1. Report Reference Identifier

POP2_PoCR_nnn (Indicated on the front page of the Proof of Concept Report)

POP2 AR 077

* 2. Application name

HOCS-CUBE

- *3. How was this Proof of concept carried out?
 - Very efficiently
 - Rather efficiently (no major problem)
 - Rather difficult (e.g. unreasonable delay, unexpected constraints, ...)
 - Poorly conducted

*4. How did you find the Proof of Concept Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
*5. How much effort was required from you to complete this Proof of Concept? (rough estimate of person
days/months)
•
10
6. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
Entirely Party Not enough Not at all
* 7. Overall, are you satisfied with this Proof-of Concept?
Very satisfied Satisfied Partly satisfied Not Satisfied
Very Satisfied O datisfied O I artly Satisfied O Not Gatisfied
*8. Are you happy for POP to publish the results of this Proof of Concept?
Note: You will be able to review any article before it is published.
Yes Yes, under certain conditions No
*9. Would you be interested in receiving any training?
Yes No
e res e no
Which kind of training does your team need?
hybrid mpi/openmp GPU
* 10. Do you have a plan to modify your code (taking into account the recommendations that have been
proposed) ?
Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all needed modifications done and validated?
Please enter a date in the following format (DD/MM/YYYY)
in th emoth
*11. Do you have other applications for which a Performance Assessment or a Proof of Concept would be
useful?
O Yes
No
* 12. Based on this experience, would your organisation be prepared to pay for a Proof of Concept service in

the future? (After the end of the European Commission funded POP project.)?

Yes	Not sure	O No

- *13. Would you recommend the POP service to your colleagues?
 - Yes
 - Possibly
 - O No

Thank you very much.

Contact

Contribution ID: f1438b31-6fc4-4fe0-91dd-ecc5b1896b0a

Date: 08/04/2021 10:09:47



POP Proof of Concept Evaluation

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Welcome and thank you in advance for answering this survey

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 * 1. Report Reference Identifie 	ier
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POP2_PoCR_nnn (Indicated on the front page of the Proof of Concept Report)

POP2 POCR 017

* 2. Application name

ASHEE

- *3. How was this Proof of concept carried out?
 - Very efficiently
 - Rather efficiently (no major problem)
 - Rather difficult (e.g. unreasonable delay, unexpected constraints, ...)
 - Poorly conducted

Olegy and accusts understand
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
*5. How much effort was required from you to complete this Proof of Concept? (rough estimate of person days/months)
20 d
6. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
*7. Overall, are you satisfied with this Proof-of Concept?
 ○ Very satisfied ○ Satisfied ○ Partly satisfied ○ Not Satisfied
Very Satisfied Cationed Trainy Satisfied Two Cationed
*8. Are you happy for POP to publish the results of this Proof of Concept?
Note: You will be able to review any article before it is published.
Yes Yes, under certain conditions No
Tes Tes, under certain conditions Tes
*9. Would you be interested in receiving any training?
Yes No
Which kind of training does your team need?
± 10. Do you have a plan to modify your ends (taking into appount the recommendations that have been
* 10. Do you have a plan to modify your code (taking into account the recommendations that have been
proposed) ?
proposed) ? O Yes
proposed) ? O Yes Not yet
proposed) ? O Yes
proposed) ? Yes Not yet No, we don't plan to modify our code
proposed) ? Yes Not yet No, we don't plan to modify our code * 11. Do you have other applications for which a Performance Assessment or a Proof of Concept would be
proposed) ? Yes Not yet No, we don't plan to modify our code * 11. Do you have other applications for which a Performance Assessment or a Proof of Concept would be useful?
proposed) ? Yes Not yet No, we don't plan to modify our code * 11. Do you have other applications for which a Performance Assessment or a Proof of Concept would be
proposed) ? Yes Not yet No, we don't plan to modify our code * 11. Do you have other applications for which a Performance Assessment or a Proof of Concept would be useful?
proposed) ? Yes Not yet No, we don't plan to modify our code *11. Do you have other applications for which a Performance Assessment or a Proof of Concept would be useful? Yes No
proposed) ? Yes Not yet No, we don't plan to modify our code * 11. Do you have other applications for which a Performance Assessment or a Proof of Concept would be useful? Yes
proposed) ? Yes Not yet No, we don't plan to modify our code *11. Do you have other applications for which a Performance Assessment or a Proof of Concept would be useful? Yes No
proposed) ? Yes Not yet No, we don't plan to modify our code *11. Do you have other applications for which a Performance Assessment or a Proof of Concept would be useful? Yes No No
proposed) ? Yes Not yet No, we don't plan to modify our code *11. Do you have other applications for which a Performance Assessment or a Proof of Concept would be useful? Yes No No *12. Based on this experience, would your organisation be prepared to pay for a Proof of Concept service the future? (After the end of the European Commission funded POP project.)?
proposed) ? Yes Not yet No, we don't plan to modify our code * 11. Do you have other applications for which a Performance Assessment or a Proof of Concept would be useful? Yes No No * 12. Based on this experience, would your organisation be prepared to pay for a Proof of Concept service the future? (After the end of the European Commission funded POP project.)?
proposed)? Yes Not yet No, we don't plan to modify our code * 11. Do you have other applications for which a Performance Assessment or a Proof of Concept would be useful? Yes No * 12. Based on this experience, would your organisation be prepared to pay for a Proof of Concept service the future? (After the end of the European Commission funded POP project.)? Yes Not sure No

Possibly	,
----------	---

O No

Thank you very much.

Contact

Contribution ID: 0263396c-6569-4ac9-9361-bc73c59b7d33

Date: 25/05/2021 16:22:14



POP Proof of Concept Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

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* 1. Report Reference Identifier

POP2_PoCR_nnn (Indicated on the front page of the Proof of Concept Report)

POP2 POCR 018

* 2. Application name

MONARCH

- *3. How was this Proof of concept carried out?
 - Very efficiently
 - Rather efficiently (no major problem)
 - Rather difficult (e.g. unreasonable delay, unexpected constraints, ...)
 - Poorly conducted

* 4. How did you find the Proof of Concept Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
*5. How much effort was required from you to complete this Proof of Concept? (rough estimate of person
days/months)
Difficult to estimate. We had differents meetings and some checks to evaluate the impact of the developments.
6. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
2 Entirely 2 Fairty 2 Not enough 2 Not at all
*7. Overall, are you satisfied with this Proof-of Concept?
Very satisfied Satisfied Partly satisfied Not Satisfied
very satisfied Satisfied Partly satisfied Not Satisfied
* 9. Are you happy for POP to publish the regults of this Proof of Concept?
*8. Are you happy for POP to publish the results of this Proof of Concept?
Note: You will be able to review any article before it is published.
Tes Tes, under certain conditions Two
*9. Would you be interested in receiving any training?
Yes No
o res o mo
* 10. Do you have a plan to modify your code (taking into account the recommendations that have been proposed)?
Yes
Not yet
No, we don't plan to modify our code
Tio, we don't plan to modify our oddo
When approximately, do you expect to have all needed modifications done and validated?
Please enter a date in the following format (DD/MM/YYYY)
We would like to add those developments in the next year release plan.
*11. Do you have other applications for which a Performance Assessment or a Proof of Concept would be
useful?
Yes
No
* 12. Based on this experience, would your organisation be prepared to pay for a Proof of Concept service is
the future? (After the end of the European Commission funded POP project.)?
Yes Not sure No
*13 Would you recommend the POP service to your colleagues?

YesPossiblyNo

Thank you very much.

Contact

Contribution ID: 2fd899db-1097-41e3-b4e1-9c602bf80560

Date: 01/10/2021 17:36:39



POP Proof of Concept Evaluation

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Welcome and thank you in advance for answering this survey

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* 1. Report Reference Identifier

POP2_PoCR_nnn (Indicated on the front page of the Proof of Concept Report)

POP2_POCR_023

* 2. Application name

ARTEMIS

- *3. How was this Proof of concept carried out?
 - Very efficiently
 - Rather efficiently (no major problem)
 - Rather difficult (e.g. unreasonable delay, unexpected constraints, ...)
 - Poorly conducted

Could you say why?
No
* 4. How did you find the Proof of Concept Report? Clear and easy to understand Somewhat difficult to understand Not at all clear
Could you say why?
Poor
*5. How much effort was required from you to complete this Proof of Concept? (rough estimate of person days/months)
3 days
6. Did POP fulfil your expectations? © Entirely © Partly ● Not enough © Not at all Any suggestions for improvement of the Proof of Concept service?
Consult with better experts
*7. Overall, are you satisfied with this Proof-of Concept? © Very satisfied © Satisfied © Partly satisfied © Not Satisfied Could you say why?
Not enough expertise
*8. Are you happy for POP to publish the results of this Proof of Concept? Note: You will be able to review any article before it is published. Yes Yes, under certain conditions No
 *9. Would you be interested in receiving any training? ● Yes ○ No
Which kind of training does your team need?
GPU SW development

* 10. Do you have a plan to modify your code (taking into account the recommendations that have been proposed) ?
O Yes
Not yet
No, we don't plan to modify our code
*11. Do you have other applications for which a Performance Assessment or a Proof of Concept would be useful?
Yes
No
*12. Based on this experience, would your organisation be prepared to pay for a Proof of Concept service in the future? (After the end of the European Commission funded POP project.)? © Yes No
*13. Would you recommend the POP service to your colleagues?
Yes
Possibly
O No
Thank you very much.

Contact

Contribution ID: 170a2766-c407-413a-8896-355ada6da925

Date: 15/09/2020 18:59:15



POP Proof of Concept Evaluation

Fields marked with * are mandatory.

Welcome and thank you in advance for answering this survey

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* 1. Report Reference Identifier

POP2_PoCR_nnn (Indicated on the front page of the Proof of Concept Report)

POP2 AR 024

* 2. Application name

CHORUS

- *3. How was this Proof of concept carried out?
 - Very efficiently
 - Rather efficiently (no major problem)
 - Rather difficult (e.g. unreasonable delay, unexpected constraints, ...)
 - Poorly conducted

*4. How did you find the Proof of Concept Report?
Clear and easy to understand
Somewhat difficult to understand
Not at all clear
*5. How much effort was required from you to complete this Proof of Concept? (rough estimate of person
days/months)
0.5 days/months
6. Did POP fulfil your expectations?
Entirely Partly Not enough Not at all
Chillely of artiy whot enough of Not at all
* 7 Overall and view activities with this Durat of Consent?
*7. Overall, are you satisfied with this Proof-of Concept?
Very satisfied Satisfied Partly satisfied Not Satisfied
*8. Are you happy for POP to publish the results of this Proof of Concept?
Note: You will be able to review any article before it is published.
Yes Yes, under certain conditions No
*9. Would you be interested in receiving any training?
Yes No
e res e no
Which hind of tweining does your toom and a
Which kind of training does your team need?
* 10. Do you have a plan to modify your code (taking into account the recommendations that have been
proposed) ?
Yes
Not yet
No, we don't plan to modify our code
When approximately, do you expect to have all peeded medifications done and validated?
When approximately, do you expect to have all needed modifications done and validated?
Please enter a date in the following format (DD/MM/YYYY)
01/01/2021
*11. Do you have other applications for which a Performance Assessment or a Proof of Concept would be
useful?
© Yes
No
* 12. Based on this experience, would your organisation be prepared to pay for a Proof of Concept service in

the future? (After the end of the European Commission funded POP project.)?

	Yes		Not sure	0	No
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- *13. Would you recommend the POP service to your colleagues?
 - Yes
 - Possibly
 - O No

Thank you very much.

Contact