



**SEVENTH FRAMEWORK PROGRAMME
Research Infrastructures**

**INFRA-2012-2.3.1 – Third Implementation Phase of the European
High Performance Computing (HPC) service PRACE**



PRACE-3IP

PRACE Third Implementation Phase Project

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Third Dissemination and Outreach Report
*Final***

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References and Applicable Documents

- [1] PRACE-3IP D3.1 Dissemination Plan (<http://www.prace-ri.eu/IMG/pdf/d3.1.pdf>)
- [2] PRACE-3IP D3.2 Outreach Plan (<http://www.prace-ri.eu/IMG/pdf/d3.2.pdf>)
- [3] PRACE-3IP D3.3 First Annual Dissemination and Outreach Report (<http://www.prace-ri.eu/IMG/pdf/d3.3.pdf>)
- [4] PRACE-3IP D3.4 Second Annual Dissemination and Outreach Report (http://www.prace-ri.eu/IMG/pdf/d3.4_3ip.pdf)
- [5] PRACE Website (<http://www.prace-ri.eu>)
- [6] Wordpress (<https://wordpress.com>)
- [7] SPIP (http://www.spip.net/en_rubrique25.html)
- [8] Scientific Computing World Website (<http://www.scientific-computing.com>)
- [9] Memcached (<http://memcached.org>)
- [10] W3 Total Cache (<https://wordpress.org/plugins/w3-total-cache>)
- [11] Fail2ban (<http://www.fail2ban.org>)
- [12] WSecure (<https://wordpress.org/plugins/wsecure>)
- [13] PRACE LinkedIn Closed Discussion Group
(http://www.linkedin.com/groups?gid=3671809&trk=hb_side_g)
- [14] PRACE LinkedIn Company Page (<https://www.linkedin.com/company/prace>)
- [15] Summer of HPC Webpage (<http://summerofhpc.prace-ri.eu/>)
- [16] PRACE RI YouTube Channel (<https://www.youtube.com/user/PRACERI>)
- [17] PRACE Training YouTube Channel (<https://www.youtube.com/user/PRACECourses>)
- [18] PRACE SoHPC YouTube Channel (<https://www.youtube.com/user/SummerofHPC>)
- [19] Summer of HPC Facebook Page (<https://www.facebook.com/SummerOfHPC>)
- [20] HPCFS - Slovenian Supercomputer (<http://hpc.fs.uni-lj.si/>)

List of Acronyms and Abbreviations

Aisbl	Association Internationales Sans But Lucratif (Legal from of the PRACE RI)
CaSToRC	Computation-based Science and Technology Research Center (Cyprus)
CMS	Content Management System
CRM	Customer Relationship Management
DG	Directorate-General (European Commission Department)
EC	European Commission
ICHEC	Irish Centre for High-End Computing (Ireland)
HLRS	High Performance Computing Center Stuttgart (Germany)
ISC	International Supercomputing Conference
MEP	Member of European Parliament
NIIF	National Information Infrastructure Development Institute (Hungary)
PATC	PRACE Advanced Training Centre
RISC	Research Institute for Symbolic Computation at Johannes Kepler University of Linz (Austria)
SC	Annual Supercomputing Conference in the USA
SCW	Scientific Computing World Magazine
SHAPE	SME HPC Adoption Programme in Europe
SME	Small & Medium Enterprise
SPIP	Système de Publication pour l'Internet Partage ou Participatif (Content Management System)
ULFME	University of Ljubljana, Faculty of Mechanical Engineering (Slovenia)
WP	Work Package
W3TC	W3 Total Cache (Word Press Plugin)

Executive Summary

This deliverable entitled the Third Dissemination and Outreach Report describes the work carried out by work package three of the PRACE-3IP project from 1 July 2014 to 31 January 2015, during the cost neutral extension to the PRACE-3IP project¹. The extension period has focused on continuing core dissemination activities and delivering Summer of HPC 2014.

Work Package 3 (WP3) - Dissemination and Outreach - within PRACE-3IP is tasked with the communication of the results of the PRACE-3IP project and promoting and publicising the activities and outputs of PRACE. The work package is divided into two tasks, dissemination and outreach.

The highlights of dissemination task during the reporting period include:

- Presentation of PRACE results at SC14 in New Orleans;
- Improvements to the stability, efficiency and security of the PRACE website.

The highlights of outreach task during the reporting period include:

- Delivery of the Summer of HPC programme;
- Campus School in Slovenia.

1 Introduction

This deliverable entitled the Third Dissemination and Outreach Report describes the work carried out by the work package from 1 July 2014 to 31 January 2015, during the cost neutral extension to the PRACE-3IP project. It follows on from previous work described in D3.3 First Annual Dissemination & Outreach Report [3] and D3.4 Second Annual Dissemination & Outreach Report [4]. The extension period has focused on continuing core dissemination activities and delivering Summer of HPC 2014.

Work Package 3 (WP3) - Dissemination and Outreach - within PRACE-3IP is tasked with the communication of the results of the PRACE-3IP project and promoting and publicising the activities and outputs of PRACE. The work package is divided into two tasks, dissemination and outreach each of which produced a plan of activities D3.1 Dissemination Plan [1] and D3.2 Outreach Plan [2] during year one of the project.

This deliverable is divided into several chapters. The second chapter focuses on the work of the dissemination team, the third on the activities of the outreach team and the final chapter summarises the work and draws conclusions.

2 Dissemination

The WP3 dissemination task has been subdivided into six subtasks, five of which have activities reported during the extension period. The press, web, customer relations management (CRM) and events subtasks have scheduled activities and the Liaising with journalists subtask reports on results which fell outside of the previous reporting window. The sixth task, the PRACE aisbl Dissemination Transition report was completed during year two of the project.

¹ PRACE-3IP Extension denotes the period of M25-M31 extending the work of WP2 – WP7 by seven month in order to ensure a seamless and continuous support of the project for the PRACE RI prior to the planned start of the PRACE-4IP project in H2020.

- *PRACE aisbl Dissemination Transition* – completed
- Web
- Press, including social media and advertising
- Liaising with journalists
- Events
- PRACE CRM

2.1 Web

During the reporting period, the PRACE RI official website [5] (Figure 1) maintained its status as the focal point of the project web presence. Project activities, updates, news and reports have been published. The most important pieces were highlighted on the homepage (open calls, PRACE events, publications, project outcomes etc.). During the first year of the project, the structure and functionalities of the website under the SPIP [7] content management system (CMS) were established and described in detail in D3.3 First Annual Dissemination and Outreach Report [3]. During the second year of the project, the effort was focused mainly on preparing and publishing new content and on coordination of website migration to the WordPress CMS [6], which was reported in D3.4 Second Annual Dissemination and Outreach Report [4]. In this reporting period, new content has continued to be created and uploaded and there has been a focus on optimising site performance using new features now available under the WordPress CMS.



Figure 1 - PRACE Website

2.1.1 Website Statistics

From 1 July 2014 to 1 Jan 2015 the PRACE website received 97,628 page views and 32,355 users (Figure 2).



Figure 2 - Web Site Visitors 1 July 2014 to 1 January 2015

Visits from users in 165 countries were recorded. Figure 3 shows the top ten countries from which users originated.

		48,060 % of Total: 100.00% (48,060)	48,060 % of Total: 100.00% (48,060)
1.	United States	5,650	11.76%
2.	France	4,402	9.16%
3.	Germany	4,053	8.43%
4.	Italy	3,465	7.21%
5.	United Kingdom	3,374	7.02%
6.	Spain	2,624	5.46%
7.	Belgium	1,989	4.14%
8.	Netherlands	1,797	3.74%
9.	India	1,355	2.82%
10.	Greece	1,053	2.19%

Figure 3 - Web Site: Top ten countries 1 July 2014 to 1 January 2015

The most visited pages spanned a range of topics including information on PRACE access, calls and resources, job vacancies and PRACE Best Practice Guides and White Papers (shown in Table 1).

	Page	Pageviews	% of Total Pageviews
1	PRACE Research Infrastructure (HomePage)	17062	17.48%
2	Best Practice Guide - Intel Xeon Phi	6999	7.27%
3	PRACE Project Access	3664	3.75%
4	White Papers - Socio Economic Challenges	2,211	2.26%
5	PRACE in a few worlds	1,863	1.91%
6	Call Announcements	1,824	1.87%
7	PRACEdays15	1358	1.39%
8	Job Vacancies	1,337	1.37%
9	PRACE Preparatory Access	1,214	1.25%
10	PRACE Resources	1,098	1.12%

Table 1 - Web Site: Top 10 visited pages

2.1.2 Performance & Security

The function set, look and data of the prace.ri.eu website was successfully migrated to WordPress from SPIP. A collaborative and iterative review and request process resulted in a seamless migration, with no change for the end user, but with additional functionality made available via the WordPress backend.

After successful migration, a full review was performed on the site to review security, performance and structure with the goal of identifying additional areas of optimisation. A test server has been implemented for this purpose to enable testing of additional plugins and functions without impacting the live site.

To improve performance, a two level caching system was introduced with memcache [9] backend and W3 Total Cache (W3TC) [10] caching module on the WordPress side to serve webpages faster.

Regarding security, automated login attempts and other Denial of Service attacks were detected, and was filtered through a two level filtering system installing fail2ban [11] on server to filter abusers and wSecure[12] module to hide WordPress login from those who have not been referred directly.

In addition, a professional newsletter module was licensed and configured to reach subscribers the same time as posting content to the site, without the need of creating separate newsletter campaign.

2.2 Press

The Press team continued normal activities during the extension and published 10 press releases (as of 1 Jan 2015), prepared content for the website, produced three advertisements and published a newsletter.

2.2.1 Press Releases

During the reporting period PRACE published 10 press releases, outlined in Table 2, of which 8 (highlighted in bold) are directly related to the PRACE project.

1. **2014-07-01 – PRACE at ISC’14 with Awards and Winners!**
<http://www.prace-ri.eu/prace-at-isc14-results/>
2. **2014-07-04 – PRACE-3IP PCP Complete Successful Bidding Stage**
<http://www.prace-ri.eu/prace-pcp-bidding/>
3. **2014-07-28 – PRACE 9th Call for Proposals connects the international HPC ecosystem**
<http://www.prace-ri.eu/call9-results-pr/>
4. **2014-09-11 – 2014 HPCwire Readers Choice Awards – Vote for PRACE and partners**
<http://www.prace-ri.eu/hpcwire-readerschoice-2014/>
5. **2014-09-23 – PRACE-3IP PCP: Whole-System Design for Energy Efficient HPC – Launch of Execution Phase I**
<http://www.prace-ri.eu/pcp-phase1-launch/>
6. **2014-10-13 – PRACE Supports HPC for Health**
<http://www.prace-ri.eu/hpc-health-2014oct/>
7. **2014-10-27 – RIST and PRACE Conclude MoU on Information Exchange Concerning Promotion of Shared Use of Supercomputers**
<http://www.prace-ri.eu/rist-prace-mou-2014/>
8. **2014-11-18 – Annual HPCwire Readers Choice Awards: PRACE and partners awarded**
<http://www.prace-ri.eu/hpcwire-readerschoice-2014-winners/>
9. **2014-12-01 - PRACE SHAPE and Albatern: producing power from waves**
<http://www.prace-ri.eu/shape-albatern/>
10. **2014-12-16 - PRACE Sponsors 2015 MEP Award for ICT**
<http://www.prace-ri.eu/mepawards2015-open-2/>

Table 2 - Press Releases

2.2.2 Graphics & Template updates

As a result of changes to the PRACE aisbl membership and the upgrade of PRACE infrastructure, an update PRACE core imagery was required, namely, the PRACE composite image and the PRACE map.

Composite Image & PRACE Map

The composite image (Figure 4 left) was updated to take account of the new machine – Hornet at the High Performance Computing Center Stuttgart (HLRS). The PRACE map (Figure 4 right) was updated to take account of the changing PRACE membership.



Figure 4 - Updated Composite Image (left) and Updated PRACE Map (right)

These changes were fed into updates for PRACE posters (Figure 5), roll-ups and the PRACE website (web banners) and will also be incorporated into future reprints of the PRACE brochure.



Figure 5 - Updated PRACE Poster

2.2.3 Advertising

Scientific Computing World

Two full-page advertisements were taken out in Scientific Computing World in 2014. Scientific Computing World is a scientific magazine for scientists, researchers and engineers who use computing in their work, with a strong focus on HPC [8]. It has print and online distribution, in addition to targeted distribution at trade shows and conference across Europe and the US.

A full-page ad in the June/July issue (Figure 6 left) highlighted the PRACE presence at the International Supercomputing Conference 2014 (ISC14) and showcased highlighted the presentation of the PRACE ISC Award, as well as the HPC in Europe session chaired by Sergi Girona, Chair of the PRACE Board of Directors.

A full-page ad in the October/November issue (Figure 6 right) showcased the opportunity to speak to PRACE experts at the PRACE booth as well as the PRACE treasure hunt activity during the Supercomputing Conference 2014 (SC14).



Figure 6 - SCW ads featuring PRACE presence at ISC (left) and SC (right)

Research Review

A half page advertisement for Research Review, a quarterly EU policy publication that focuses on research news and analysis was published in June 2014 (Figure 7). The audience of the publication is Members of the European Parliament and the advertisement focused on highlighting PRACE scientific work.



Figure 7 - Advertisement in Research Review

European Commission Guide

The guide to the European Commission (EC) details the structure, mission and objects and workings of each Directorate General (DG). A half page advertisement has been commissioned and is in design for publication in the Jan/Feb publication. This advertisement will also be reused for the PRACE aisbl sponsorship of the MEP awards, which will be promoted in The Parliament Magazine – Research Review.

2.2.4 Social Media

PRACE has continued to utilise social media channels to reach and engage its varied and diverse target audience during this reporting period. The emphasis has been on showcasing events, calls, project results and training events.

Twitter

The PRACE twitter account is @PRACE_RI. The account has seen a steady increase in followers since its creation April 2012, and this trend has continued in this reporting period. As of 1 January 2015 the account had 768 followers, an increase of 165 (27%) since 30 June 2014.

When tweeting the following hashtags are commonly used:

- #PRACE
- #HPC
- #SHAPE
- #Science
- #Training

- #Industry

For the SC, the hashtag #SC14 was used.

As of 1 January 2015, PRACE has tweeted 284 times, including 55 since the last Dissemination and Outreach Report.

The PRACE Communications Officer moderates the Twitter account and manages requests from other work packages and partners for communications. Authorised users also include members of the PRACE WP3 team to facilitate live tweeting during events.

The Summer of HPC programme (SoHPC) also tweets from a custom Twitter account: @SummerofHPC and has tweeted 141 times to date and has 173 followers.

LinkedIn

The PRACE presence on LinkedIn consists of a closed discussion group [13] and a company page [14]. The closed discussion group provides a forum for professionals within the industry to connect and share content. Prospective members must apply and be approved by one of the page managers, PRACE aisbl Communications Officer, Marjolein Oorsprong, Anni Jakobsson (CSC), Laetitia Baudin (GENCI) and Stephane Requena (GENCI). The Company page is accessible to all and provides a forum for PRACE to provide information, job opportunities and links. As of 1 January 2015, the closed discussion group has 431 members and the company page has 176 followers, an increase of 31(8%) and 44 (33%) respectively, since last reported.

YouTube

PRACE has a PRACE RI YouTube channel [16], a training YouTube channel [17] and a SoHPC YouTube channel [18]. The channels were established between May and Nov 2012. Cumulative lifetime views of the channels stand at 19,148 as of 1 January 2015. A merge of the YouTube channels has been investigated and recommended. Implementation is on the agenda for 2015.

Facebook

SoHPC has successfully piloted the use of Facebook for PRACE. The Facebook page proved an excellent way to communicate with the target audience of SoHPC - students aged 19-25 – and this has continued during this reporting period. The page has recorded 579 likes to date. As reported on in D3.4 [4], as a result of the SoHPC pilot, it is recommended that a PRACE RI Facebook page to be implemented. Resourcing for the requisite social media response and moderation team will be a priority in subsequent work.

2.2.5 Newsletters

PRACE Newsletter 13 was published on 28 October 2014 and included PRACE project results, PRACE announcements, PRACE events, and the feature of the SHAPE programme. PRACE Newsletter 14 is in preparation at the time of writing for publication on 30 January 2015.

2.3 Events

The work of the events subtask in the extension period was focused on the PRACE presence at the annual SC in New Orleans, Louisiana, 17-20 November 2014. Once again, PRACE exhibited an informative and engaging booth, which featured PRACE scientific and industrial results and information on PRACE access, training, outreach, and industrial engagement programmes.

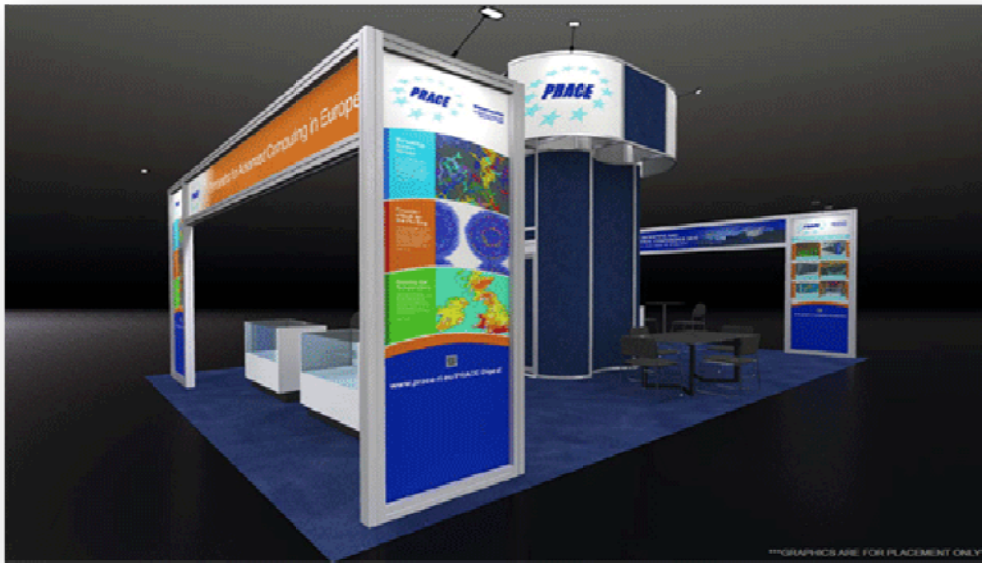


Figure 8 - PRACE Booth Design at SC14

SC14 provided a strong opportunity to meet and interact with some of the world's leading HPC experts. Over 500 people visited the PRACE booth, with 484 new contacts made. Visitors spoke to PRACE experts on a variety of topics and participated in the PRACE Treasure Hunt.

Dissemination material available included:

- PRACE Digest
- PRACE Annual Report
- PRACE Press Releases
- PRACE newsletter
- SHAPE case studies
- PRACE Industrial Digest
- PRACE Advance Training Centre (PATC) curriculum
- Material promoting PRACE colorations with Women in HPC and EUDA
- Flyer and bookmark advertising PRACEdays15

A new initiative, the PRACE Expert Drop-In was a huge success. In addition to the WP3 staff members, twelve PRACE experts, Hans Eide, University of Oslo; Buket Benek Gursoy ICHEC, Ireland; Jorge Rodriguez, BSC, Spain; Sophie Valcke, CERFACS, France; Radosław Januszewski, PSNC, Poland; Michael Lysaght, ICHEC, Ireland; Stelios Erotokritou, CYI, Cyprus; Sergi Girona, BSC, Spain; Stéphane Requena, GENCI, France; Michael Browne, ICHEC, Ireland; Cevdet Aykanat, Bilkent University; and Walter Lioen, SURFsara, the Netherlands were on hand to answer questions and promote PRACE.



Figure 9 - PRACEdays15 (left) & PRACE EUDAT collaboration (Right) Flyers

2.4 Liaising with Journalists

While the Liaising with journalists task did not formally continue in the extension period, several articles were published in this period as a result of the effort in year two of the project. The task has published a total of 36 articles, with 3 falling during this reporting period.

In Hungary two articles were published relating to the International Summer School organised by PRACE-3IP WP4 – Training, which was held in Budapest. In Austria, an article was published about the importance of HPC featuring PRACE Austrian partners RISC, at Johannes Kepler University and highlighting their involvement in PRACE.

The full list of articles can be seen in clipping in Table 3 and clippings of the recent articles in Appendix A – Liaising with Journalists Articles.

	No.	Date	Country	Media
M1-12	1	March 2013	Ireland	Irish Times
	2	April 2013	Austria	derStandard
	3	April 2013	Slovenia	racunalniske-novice
	4	April 2013	Slovenia	Ventil
	5	April 2013	Czech Republic	Czech Focus
	6	June 2013	Slovenia	IRT 3000
M13-24	7	Jul 2013	Czech Republic	Technicky Tydenik No. 14
	8	Jul 2013	Israel	Hayadan
	9	Jul/Aug 2013	Austria	http://medienportal.univie.ac.at

	10	Aug 2013	Czech Republic	Technicky Tydenik No. 16
	11	Oct. 2013	Hungary	Napi Gazdasag
	12	Oct 2013	Slovenia	ARNES
	13	Nov. 2013	Austria	OÖ Wirtschaft
	14	Nov 2013	Czech Republic	Technický týdeník No. 24
	15	Dec 2013	Slovenia	Računalniške novice
	16	Dec 2013	Slovenia	Ventil
	17	Jan 2014	Israel	The Jerusalem Post
	18	Feb 2014	Israel	Geektime.co.il
	19	Feb 2014	Israel	Sponsor.co.il
	20	Feb 2014	Israel	Talniri.co.il
	21	Feb 2014	Israel	http://www.knasim.com
	22	Feb 2014	Israel	http://www.yedatech.co.il/
	23	Feb 2014	Israel	http://techttime.co.il
	24	Mar2014	Israel	The Marker
	25	Apr 2014	Austria	Langenachtderforschung.at
	26	Apr 2014	Austria	Ooe-journal.at
	27	Apr 2014	Austria	Science.apa.at
	28	Apr 2014	Austria	Jku.at
	29	Apr 2014	Austria	Myscience.at
	30	May 2014	Hungary	Heti Valasz
	31	May 2014	Hungary	Hirado.hu
	32	May 2014	Hungary	Orientpress.hu
	33	May 2014	Hungary	Prim Online
M32-37	34	May 2014	Hungary	Hiradu.hu
	35	June 2014	Hungary	Prim Online
	36	July 2014	Austria	Jahresbericht 2013

Table 3 - Liaising with Journalists Published Articles

2.5 PRACE CRM

During the extension period of PRACE-3IP, PRACE CRM (Customer Relationship Management) activities have continued, including:

- The maintenance of PRACE contacts
- Use of the CRM's mass mailing system for sending PRACE announcements
- Use of contact details to extract relative PRACE statistics.

In the main, the maintenance of CRM contacts has involved the addition of new contacts gathered at conferences (such as ISC 2014 and SC 2014) and training events. As of 1 January

2015, the PRACE CRM stores the details of 8796 contacts - an increase of 1779 contacts compared to 30 June 2014 when the number of CRM contacts was last reported.

During the PRACE-3IP extension period months, the PRACE CRM mass mailing system has been used twice to mass mail all PRACE contacts PRACE announcements. One titled "The PRACE 10th Call for Proposals for Project Access is now open!" and the second "PRACEdays15 - Call for Posters now open!". The CRM is a powerful and significant PRACE outreach tool and its mass mailing capability could be used more frequently. Indeed, plans to migrate to a new, more usable and email-friendly CRM system will initiate in the next few months. Investigations are underway to enable new functionality, such as more targeted mailings. A balance must be struck between providing relevant and timely information and over utilising the blunt instrument that is mass mailing. Overuse can result in contacts unsubscribing, brand damage and lack of message penetration.

The PRACE CRM has also been used to provide statistics on various aspects of PRACE contacts. For example Table 4 - PRACE CRM Contacts, which identifies the number of industrial contacts and the number of companies they represent collated by year and the conference at which they were collected. Table 4 also illustrates the number of the contacts gathered which were return visitors (individual and company) to PRACE booths and which were new.

Year	Event	Industrial Contacts		Companies	
		Number of Industrial Contacts	New Industrial Contacts	Companies	New Companies
2008	ISC 2008	14	14	13	13
	SC08	8	8	8	7
2009	ISC 2009	32	32	26	21
	SC09	46	46	32	23
2010	ISC 2010	46	40	34	21
	SC10	31	29	23	9
2011	ISC 2011	63	58	41	22
	SC11	74	71	53	34
2012	ISC 2012	67	61	40	19
	SC12	98	87	59	34
2013	ISC 2013	123	112	69	41
	SC13	163	136	115	63
2014	ISC 2014	77	56	43	19
	SC 2014	123	98	72	29
TOTAL		965	848	628	355

Table 4 - PRACE CRM Contacts

In the future, the PRACE CRM will continue its activities. The contact database will be maintained and further use of its mass mailing capability will be sought and encouraged. Ways with which the contact details can be used to extract relevant statistical data and information in an easier and representative manner will also be sought, including the investigation of new CRM systems and integration with the PRACE website.

3 Outreach

3.1 Summer of HPC (SoHPC)

Following on from a very successful Summer of HPC (SoHPC) in 2013 (reported on in D3.4 [4]), the PRACE Council and PRACE Board of Directors (BoD) approved a scaled-down version of the Summer of HPC in 2014 in the extension period. The National Information Infrastructure Development Institute (NIIF) in Hungary coordinated the programme in 2014.

In the last reporting period (see D3.4 [4]) potential hosting sites were identified and five sites were selected to host two students each, ten students in total. The application process was launched in March 2014 and ten students selected from a pool of 44 through a review process reported on in D3.4 [4].

The placement itself ran during the extension period with participants completing their assigned project supervised by their project mentors at the five sites between 1 July and 30 August 2014. Each site had an appointed site coordinator and each project a project mentor. The project mentors were responsible for the scientific work of the participants while the site coordinators helped the students deal with their daily issues and arranged their flights and accommodation beforehand.

As the organiser of SoHPC 2014 NIIF corresponded with the site coordinators about the start of the placements. Some small difficulties were encountered with participants securing visas. This resulted in a delayed start (1 week) for two students. These students were able to stay for an additional week to make up the time. Other than this small delay the programme ran very smoothly.

During the summer, each student wrote two articles for the SoHPC blog: the first one was due by the end of July and the second one was due by the end of August. They wrote about their personal and professional experiences, and included pictures and visualizations. NIIF edited and proofed these articles with the help of the PRACE-3IP Press team and uploaded them to the SoHPC website [15] under project reports.

The Summer of HPC website received 14,126 pages views from 5,319 viewers during the 2014 programme – 1 March 2014 (applications open) to 30 September 2014 (winning student announced).

At the end of the summer, project mentors were asked to evaluate their mentees work and propose a student for the SoHPC 2014 Best Student Prize. After writing a one page long evaluation the mentors had to rate other sites' students and the student who received the highest points won the award. This year, Nicola Luminari who was placed at the Czech Republic site won this prize. The winner was announced on the SoHPC website and via a press release.

SoHPC14' Best Student Prize winner: Nicola Luminari



We are happy to announce that Nicola Luminari from Italy has won the SoHPC14 Best Student Prize! Nicola was on placement through the programme in the Czech Republic at IT4Innovations(VSB-Technical University of Ostrava), under the supervision of his project mentor Tomas Karasek Ph.D. Nicola and a fellow SoHPC student Martin Weber from Austria worked on the same project with the objective to develop a car racing game, which can demonstrate the capabilities and application of HPC systems. This game will be used to promote HPC among young people. In the game players have the freedom to modify the design of the car (size, shape, etc.), which impacts its chance to win the race. Through this game the basics of fluid dynamics (i.e. aerodynamics) and the effect of drag coefficient on car performance (car speed) is demonstrated.

Nicola demonstrated high technical skills far exceeding the level expected from students of his age. He was working on the physical aspect of the game and developed an automated CFD simulation of the external aerodynamics of the car.

This simulation is performed to establish the drag coefficient of the car and its value is passed back to the game. Nicola created a whole workflow i.e. automated mesh generation and numerical simulation using the open source code OpenFOAM. Apart from this he had to perform a lot of numerical simulations on the IT4Innovations cluster Anselm. Among these simulations were

- Automatic mesh generation.
- Sensitivity analysis to obtain mesh independent drag coefficient.
- Scalability tests for mesh obtained from the previous step to establish optimal number of cores to be used in the game.

Figure 10 - SoHPC 14 Best Student Prize Announcement

Based on the feedback of the students and the mentors we can say that this year's programme was a success - the mentors were satisfied with their mentees, and the students received valuable scientific experience.

SoHPC 2014 successfully continued the momentum gained in the 2013 programme and has successfully laid the groundwork for future iterations.

3.2 Campus Schools & HPC Classes

PRACE Campus Schools focus on informing and engaging students aged 15-18 years about Science, Technology, Engineering, and Mathematics (STEM) through HPC. Applying various approaches, these events introduce students in an accessible manner to supercomputers, and their applications in STEM. During the reporting period, one Campus School was organised in Slovenia in July 2014.

Slovenia

During the summer vacation period (7-11 July 2014) University of Ljubljana together with Faculty of Information Sciences (FIS) organised a campus school for students at the university as part of PRACE-3IP outreach activities. Morning lectures and live demonstrations on HPC were prepared by ULFME and FIS and broadcasted from one site to other. In the afternoon hands-on trainings in computing classrooms were conveyed at each site with different exercises on HPCFS [20] supercomputer. On Thursday there was a common training in cluster tools and Python MPI with organized transport from Novo Mesto to Ljubljana and back. Participants received accounts on supercomputer HPCFS for hands-on from both sites.

4 Conclusion

The results from WP3 in the no cost extension to the PRACE-3IP project - July 2014 to Jan 2015 - have been outlined in this document. WP3 successfully maintained Press and Web team activities during this period, communicating and publicising the results of the PRACE-3IP project. Progress has been made in improving the PRACE website and social media engagement and set a solid foundation for further work in these areas. The PRACE events team delivered a well-received presence at SC 2014 and the Summer of HPC was once again a resounding success in 2014.

Throughout this reporting period and indeed the entire PRACE-3IP project, WP3 has refined, adapted and improved its Outreach and Communication activities. These improvements and lessons learned will be fed into subsequent work and provide a strong basis for the further success of PRACE communication and outreach.

5 Appendix A – Liaising with Journalists Articles


HIRADO.HU
 Magyarországi hírportálja

mobil / (2014/01/15/bárhol bármikor hírado-
 facebook
 rss (/hirado.aspx)
 in english (/rovatok/in-english)

Video Belföld Külföld Telesport Kétfény Tudomány Gazdaság High-tech Bulvár Kultúra

(http://hirado.hirado.hu/rovatok/belfold.html) (http://hirado.hirado.hu/rovatok/kulfold.html) (http://hirado.hirado.hu/rovatok/telesport.html) (http://hirado.hirado.hu/rovatok/ketfeny.html) (http://hirado.hirado.hu/rovatok/tudomany.html) (http://hirado.hirado.hu/rovatok/gazdasag.html) (http://hirado.hirado.hu/rovatok/high-tech.html) (http://hirado.hirado.hu/rovatok/bulvar.html) (http://hirado.hirado.hu/rovatok/kultura.html)

10 oldal (http://www.hirado.hu) / High-tech (http://www.hirado.hu/rovatok/high-tech/)

Szuperszámítástechnikai nyári egyetem lesz Budapesten

Forrás: hirado.hu | 2014.05.30. 15:00:00

A fővárosban rendezik meg június 1-6 között a Nemzetközi Szuperszámítástechnikai Nyári Egyetemet. A hallgatók az Egyesült Államokból, Kanadából, Japánból és az Európa országaiból érkeznek, összesen nyolcvan.

2010-ben az Európai Unió és Amerikai Egyesült Államok együttműködésében jött létre a Nemzetközi Szuperszámítástechnikai Nyári Egyetem elnevezésű kezdeményezés. A programot páros években európai országokban, míg páratlanokban az Egyesült Államokban rendezik meg. Az EU a PRACE projekten keresztül vesz részt a projektben. Előbbinek hozánk is tagja, így nem véletlen hogy az idén már ötödik alkalommal megrendezendő Nyári Egyetemnek épp Budapest ad otthont.

A június 1-6 között zajló programra az Egyesült Államok és az Európai Unió mellett Japánból és Kanadából is érkeznek hallgatók, összesen nyolcvan. A hatnapos Nyári Egyetemen való részvétel még márcusban hirdették meg. Az elmúlt évek sikereit követően idén is óriási volt a túljelentkezés. Összesen 533-an adták be pályázatukat a részvételre. A legnagyobb érdeklődés az Egyesült Államokban volt, itt a 30 meghirdetett helyre 252-en jelentkeztek. A rendezvényen a világ legjobb egyetemének hallgatói képviselték magukat.

A program elsődleges célcsoportja a PhD hallgatók, illetve posztdoktori képzésben résztvevő tudósok. A szervezők szerint a programozói előképzettség a Nyári Egyetem sikeres abszolválásának az előfeltétele. A képzés programja délelőtnként hagyományos előadásokból áll, míg délutánonként workshopokon vehetnek részt a hallgatók.

A június eleji rendezvényen olyan témákat vitatnak meg a résztvevők, mint: hozzáférés a számítógépes infrastruktúrákhoz, ágazati kihívások (kémia, fizika, bioinformatika területei), programozási kérdések, teljesítményelemzés vagy éppen a tudományos vizualizációk területe. A program egyik sajátossága, hogy a világ számos pontjáról érkező, neves előadók nemcsak prezentációikkal képviselik ismereteiket, eredményeiket, hanem kvázi mentor funt dót is betöltenek a 6 napos rendezvény időtartama alatt.

Magyarország mára a szuperszámítástechnikai beruházások, és fejlesztések területén Közép-Kelet Európát tekintve az élmezőnyben foglalt helyet. Hazánkban jelenleg is zajlik a Szuperszámítástechnika a felsőoktatásban elnevezésű projekt. A beruházásnak köszönhetően 2014 végéig megkétszereződik a magyar szuperszámítástechnikai összekapacitás. Ezt a gyakorlatra úgy lehetne lefordítani, hogy olyan teljesítménnyel bír majd a hazai rendszer, mintha a világ 7 milliárd embere kezébe venne egy-egy számológépet, és másodpercenként kb. 30 ezer műveletet hajtának végre egyszerre. A projekt két kiemelt központja Budapest és Debrecen. A Magyar Állam és az Európai Unió összesen közel 2 milliárd forinttal támogatja a projektet.

MÉG TÖBB HÍR **LEGOLVASOTTABB**

A moszuli túsúly miatt rendkívüli tanácskozást tartottak a NATO brüsszeli nagykövetei
(http://hirado.cms.mtv.hu/2014/06/11/a-moszuli-tuszuly-miatt-rendkivuli-tanacskozast-tartottak-a-nato-brusszeli-nagykovetel/)

A Skandináv lottó nyerőszámai és eredményei
(http://hirado.cms.mtv.hu/2014/06/11/a-skandinav-lotto-nyeroszamal-es-nyeremenyel-4/)

Navracsics Tibor szövetséget ajánlott Szlovéniának
(http://hirado.cms.mtv.hu/2014/06/11/navracsics-tibor-szovetsseget-ajanlott-szlovenianak/)

Bagdadhoz közeledtek az iszlamista támadók
(http://hirado.cms.mtv.hu/2014/06/11/bagdadhoz-kozeledtek-az-islamista-tamadok/)

Orbán: a Professzorok Batthyány Köré szellemi támogatást ad a magyar politikának
(http://hirado.cms.mtv.hu/2014/06/11/orban-a-professzorok-batthyany-kore-szellemi-tamogatast-ad-a-magyar-politikanak/)

Újabb összecsapások a Közép-afrikai Köztársaság középső részén
(http://hirado.cms.mtv.hu/2014/06/11/ujabb-osszecsapások-a-kozep-afrikai-koztarsasag-kozepso-reszen/)

Rekord nagyságú kártérítést ítélt meg Romániában egy amputált végtag miatt
(http://hirado.cms.mtv.hu/2014/06/11/rekordnagysagu-karteritest-itelek-meg-romaniaban-egy-amputalt-vegtag-miatt/)

Bővítik a borbányaitemetőt Nyíregyházán
(http://hirado.cms.mtv.hu/2014/06/11/bovitlik-a-borbanyal-temetot-nyiregyhazan/)

A vörös hús gyakori fogyasztása összefügghet a mellrákkal
(http://hirado.cms.mtv.hu/2014/06/11/a-voros-hus-gyakori-fogyasztasa-osszefugghet-a-mellrakkal/)

Figure 11 - (No 34) Article on International Summer School in Hungarian Press – Hirado.hu

Nemzetközi Szuperszámítástechnikai Nyári Egyetem Budapesten

forrás: Prím Online, 2014. május 31. 09:23

Június 1- 6 között Budapesten kerül megrendezésre a Nemzetközi Szuperszámítástechnikai Nyári Egyetem. A rendezvényre idén már ötödik alkalommal kerül sor. A 6 napos Nyári Egyetemre az Egyesült Államokból, Kanadából, Japánból és az Európa országaiból érkeznek hallgatók, összesen nyolcvan. A rendezvényt első sorban Phd hallgatók számára szervezik, és a programozási előképzettség előfeltétel. A program délelőttönként hagyományos előadásokat foglal magába, míg a délutánokat rendszerint workshopokkal töltik ki.

2010-ben, az Európai Unió és Amerikai Egyesült Államok együttműködésében jött létre a Nemzetközi Szuperszámítástechnikai Nyári Egyetem elnevezésű kezdeményezés. A programot páros években európai országokban, míg páratlanokban az Egyesült Államokban rendezik meg. Az EU a PRACE projekten keresztül vesz részt a projektben. Előbbinek hazánk is tagja, így nem véletlen, hogy az idén már ötödik alkalommal megrendezésre kerülő Nyári Egyetemnek épp Budapest ad otthont.

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Figure 12 - (No 35) Article on International Summer School in Hungarian Press – Prim online

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INDUSTRIE & FORSCHUNG

rechnet mit RISC Software GmbH

von Univ.-Prof. Dr. Peter Mauls
Assoc.-Prof. Dr. Carsten Schenkler

Zentrale Fragen der Wissenschaft und Gesellschaft können heute nur durch Bündelung aller verfügbaren Lösungsmethoden bewältigt werden. Dabei tragen Softwarelösungen einen immer wichtiger werdenden Teil bei. So zum Beispiel bei der weiteren Erforschung der Einflussfaktoren und Wechselwirkungen bei Klimaveränderungen, bei Werkstoffinnovationen mit Hilfe von Nanotechnologien, bei der Entwicklung

energieeffizienter Automobile und Flugzeuge oder bei der Erforschung neuer Medikamente oder der Früherkennung von Krankheiten mit Hilfe molekularbiologischer und chemischer Modelle. Für diese Aufgaben werden Rechenleistungen und Speicherkapazitäten benötigt, die nur durch verteilte, massiv parallele Rechenarchitekturen („High Performance Computing – HPC“) zur Verfügung gestellt werden können.

Heterogeneous Architectures
OpenMP GPGPU C/C++
Threading Memory-Bound CUDA
Parallel Programming
OpenCL Xeon Phi Compute-Bound
Multi-Core Vectorization
Memory Hierarchies


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Ein langjähriger Kompetenzschwerpunkt der RISC Software GmbH ist die Entwicklung und Implementierung spezialisierter Berechnungsverfahren, sodass verfügbare HPC-Ressourcen bestmöglich genutzt werden können. Dabei profitiert die RISC Software GmbH von der engen Zusammenarbeit mit dem grundlagenorientierten RISC Institut der JKU Linz, an dem seit mehr als 20 Jahren zu diesem Themenbereich geforscht wird.

Wie die Nutzung aller Spuren auf der Autobahn zu einem höheren Verkehrsdurchsatz führt, führt die Parallelisierung auf Computern zu einer Erhöhung des Berechnungsdurchsatzes.

Das RISC Institut zusammen mit der RISC Software GmbH sind auch nationaler Vertreter von Österreich im europaweiten Projekt PRACE („Partnership for Advanced Computing in Europe“). Die Zielsetzung von PRACE ist die Schaffung und Bereitstellung einer hochklassigen gesamteuropäischen HPC-Forschungsinfrastruktur sowohl für den akademischen Bereich als auch für industrielle Anwender. Darüber hinaus bietet PRACE ein breites Spektrum an HPC-Dienstleistungen sowie zahlreiche Aus- und Weiterbildungsveranstaltungen.

Nicht nur die Entwicklung von Softwaresystemen für parallele Hardwarearchitekturen mit mehr als 10.000 Rechenknoten erfordert ein Umdenken in der Algorithmenentwicklung und Implementierung. Zunehmend können die verfügbaren Ressourcen moderner,



Wie die Nutzung aller Spuren auf der Autobahn zu einem höheren Verkehrsdurchsatz führt, führt die Parallelisierung auf Computern zu einer Erhöhung des Berechnungsdurchsatzes.

Figure 13 – (No 36) Article on RISC and PRACE in Austrian Magazine Jahresbericht 2013