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Scalable Software Services for Life Science

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WP5

- Task 5.1: Technical management (PM 1-36, Leader KTH)

- Task 5.2: Provision and support of tools (PM 1-36, Leader BSC)

- Task 5.3: Provision of hardware resources and technology watch (PM 1-36, Leader LRZ)

- Task 5.4: Knowledge base – best practices (PM 1-36, Leader UOXF.E9)

- Task 5.5: Pilot the Competence Centre (PM 12-36, Leader KTH)

- Task 5.6: Business Plan and Sustainability (PM1-36, Leader KTH)

- Achievements: milestones were reached and deliverables sent according to the plan

- Issues

  – difficult communication with some partners - very slow response to requests

  – use the mailing lists for communication rather than channel through me

  – if your name is mentioned in the mail, follow up

  – scalalife-tech discussions go to the forums

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- Achievements: large selection of tools has been made available as part of MS25 (http://scalalife.eu/tools)

- Issues

  – need a plan to assess what is useful, what is needed and what needs to go - D5.2 coming in August!

  – do we have the expertise to support all tools - too many debuggers and performance tools?

  – have sections - core tools and extra tools?

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- Achievements: several HW platforms have been provided, described in D4.1; Technology watch - contact established with SciEngines about porting Gromacs on FPGAs

- Issues

  – report on the HW usage, D5.3 coming in Feb. 2012

  – performance on FPGAs cannot compete with GPUs but still we should try to finalize the implementation

  – analyze PRACE deliverables for possible collaboration on technology watch

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- Achievements: platform has been selected (Drupal, same as website) and modules selected for additional functionality; the functions of KB are described in D5.1 as follows

- KB will provide
  - tutorials and best practices guides
  - presentation slides and video material
  - descriptions of the tools, models, algorithms and visualization techniques that are used for software usage and development
  - web directory for access to external sources of information relevant to the projects.

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- KB will be populated with material on:
  - **Software code optimization and debugging**: documentation will represent description of the optimization work done by **WP6 experts**.
  - **Software deployment:** results from the validation tests as done by **WP4** will be summarized and presented as best practice guides for efficient utilization of HPC resources.
  - **Application specific issues**: the information will be gathered through collaboration with the **alpha-user groups.** Information in this area will be captured from the discussion forums and trouble tickets submitted through the help desk, making sure that every issue is processed and included as FAQs, best practices guide or tutorial.
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- Issues
  - need a **leader from OeRC** on the task!
  - need to **setup the KB structure** within the webportal
  - need to **design the procedure** for KB population
  - **identify contributors** in different categories
  - meet the **internal milestones** for population
  - in general - manpower intensive task, cooperation from everyone is vital! need to improve the communication!
- This is an important task - we will schedule **biweekly conference calls** to monitor the progress!

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- The effort required for this task is 18 PM provided by BSC (4PM), KTH(7PM), and UOXF.E9(7PM)

- **Functionality (KTH?)**
  - system maintenance - core/module upgrades (with LRZ)
  - new modules - selecting, testing, installing, setting up
  - custom code - if needed for extra functionality e.g. during integration of external resources

- **Interface/Theme/Layout (BSC?)**
  - Redesigning the layout as needed in future

- **Knowledge base management (OeRC?)**
  - Organizing the structure of the knowledge base pages
  - Developing procedures for population
  - Making sure that the information on the web is regularly updated and that all partners contribute

Internal KB milestones

Indicators	Targets	Deadline
Installation guides for core applications	1 per core appl.	PM12
Support tools installation guides	1 per tool	PM12
Best practices guides for core applications usage on high-end hardware	1 per core appl.	PM18
Support tools usage guides	1 per tool	PM18
Analysis of simulation outputs	1 per core appl.	PM18
Description of implemented algorithms and methods in core applications	1 per core appl.	PM24
Troubleshooting FAQ	1 per core appl.	PM24
Number and relevance of available test cases and models for the core applications	Cover the most commonly used functionality	PM12
Number of integrated information structures such as external forums and mailing lists	6	2 at each PM18/24/30
Quality and quantity of the provided material (based on a questionnaire)	User satisfaction >80%	PM18/24/30

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Internal KB milestones

Indicators	Targets	Deadline
Installation guides for core applications	1 per core appl.	**PM11**
Support tools installation guides	1 per tool	**PM11**
Best practices guides for core applications usage on high-end hardware	1 per core appl.	PM18
Support tools usage guides	1 per tool	PM18
Analysis of simulation outputs	1 per core appl.	PM18
Description of implemented algorithms and	1 per core appl.	PM24
	1 per core appl.	PM24
Number and relevance of available test cases and models for the core applications	Cover the most commonly used functionality	**PM11**
Number of integrated information structures such as external forums and mailing lists	6	2 at each PM18/24/30
Quality and quantity of the provided material (based on a questionnaire)	User satisfaction >80%	PM18/24/30

To be included in the action list for the EB meetings

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• To be discussed later

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- Achievements: MoU signed with ERINA+; draft underway with INCF

- Issues
  - partners to suggest regional initiatives for collaboration - e.g. SeRC in Sweden, what's in your country?
  - need MoUs with EGI/PRACE
    - Can we link to their support structures?