

HPI Future SOC Lab - Call for Projects

Fall 2016



The HPI Future SOC Lab offers researchers free of charge access to a powerful infrastructure to conduct their research activities. Over 310 research projects were supported by our lab since it was launched together with EMC, Fujitsu, Hewlett Packard Enterprise (HPE), and SAP in 2010.

Topics of interest for the HPI Future SOC Lab include but are not limited to:

- **Service-oriented computing** (SOC) and efficient management of concurrency and memory,
- **Cloud Computing** for engineering and hosting distributed applications,
- New applications exploring new ways of data processing, such as **in-memory technology**,
- **Multicore architectures / GPU**,
- **Hybrid Computing**,
- **On-demand delivery models** for business applications,
- Applications in the area of **Machine Learning**.

Researchers can apply to gain access to this infrastructure by submitting project proposals. Project proposals are reviewed and approved by a Steering Committee which is led by the head of HPI, Prof. Dr. Christoph Meinel, and which comprises representatives from HPI and the industrial partners, EMC, Fujitsu, HPE, and SAP.

All proposals must be submitted by October 06, 2016.

The Steering Committee decisions will be announced as part of the **HPI Future SOC Lab Day on November 03, 2016**.

Projects are approved for the length of one Future SOC Lab period, which starts November 04 and is approximately six months long. Proposals for follow-up projects can be submitted in subsequent call for projects, with the next one being published in Spring 2017.

Project proposal

Your project proposals should be short and concise. Please use the following template for your submissions.

Please do not hesitate to get back to us in case of questions or comments.

Contact and Proposal Submission: futuresoc-lab-info@hpi.de

CONTACT INFORMATION

PRINCIPAL INVESTIGATOR:

NAME (INCL. TITLE):

EMAIL ADDRESS:

RESEARCH INSTITUTION:

STREET ADDRESS:

CITY:

ZIP CODE:

STATE:

CONTACT AUTHOR:

NAME (INCL. TITLE):

EMAIL ADDRESS:

BIOGRAPHY OF CONTACT
AUTHOR (MAX. 1000
CHARACTER):
(OPTIONAL: BIOGRAPHIES
OF ADDITIONAL
PARTICIPANTS)

OPTIONAL: ADDITIONAL
PARTICIPANTS AND
INSTITUTIONS:

PROJECT INFORMATION

PROJECT TITLE:

MANAGEMENT SUMMARY
(MAX. 350 CHARACTER):

PLEASE ATTACH TO THIS FILE A SHORT ABSTRACT AND FURTHER INSIGHT INTO THE PROPOSED RESEARCH (MAX. 2500 CHARACTER, PDF FORMAT)
(APPROACH TO ADDRESS THE RESEARCH TOPIC, PROJECT PLAN, REFERENCES TO PRIOR PRACTICAL EXPERIENCE OR RELATED PUBLICATIONS)

WHICH FUTURE SOC LAB RESOURCES DO YOU REQUIRE FOR YOUR RESEARCH?

DO YOU NEED ACCESS TO THE CLUSTER?	YES	IF YES, HOW MANY NODES?
	NO	(1-25)

HPE CLOUDSYSTEMS 9:

DO YOU NEED ACCESS TO THE HPE CLOUDSYSTEMS 9?	YES	IF YES, HOW MANY BLADES? (1-16):
	NO	

INFRASTRUCTURE ORCHESTRATION:	YES	NO
-------------------------------	-----	----

MULTI-CORE SERVER:

RAM:	16 GB	32 GB	64 GB	256 GB
	1 TB	2 TB		
CPU (CORES):	24	32	64	

GPU ACCESS:	YES
-------------	-----

VIRTUAL MACHINES -
PLEASE SPECIFY THE
AMOUNT AND SIZING:

STORAGE - PLEASE
SPECIFY YOUR
REQUIREMENTS IN
DETAIL:

DO YOU NEED A SAP HANA INSTANCE?	YES	IF YES:	SAP HANA PREDICTIVE ANALYSIS LIBRARY (PAL)
	NO		R

OTHER SOFTWARE:

REQUIRED FUTURE SOC LAB RESOURCES (HARDWARE AND SOFTWARE) FOR THE SIX MONTHS TO COME (THE FUTURE SOC LAB PERIOD)

IS EXCLUSIVE ACCESS REQUIRED?	YES	NO
-------------------------------	-----	----

FOR HOW LONG AND AS OF WHEN DO YOU PLAN TO ACCESS TO THE REQUIRED RESOURCES? (E.G. 40 HOURS FOR TESTING AND ANOTHER 80 HOURS TO RUN EXPERIMENTS BEGINNING IN APRIL 2016 OR THREE MONTHS BEGINNING IN MAY 2016)

PLEASE DO NOT HESITATE TO GET BACK TO US IN CASE OF QUESTIONS OR COMMENTS.

CONTACT AND PROPOSAL SUBMISSION: futuresoc-lab-info@hpi.de

WEB LINK: http://www.hpi.de/future_soc_lab