

# Mytilene, Greece, MS HPC workshop

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Tuesday 29-Wednesday 30 September 2009

## Objectives

- Install and get acquainted with MS Windows HPC server 2008
- Present the requirements of the University of Aegean HPC project and exchange views
- Assess the prospect of using MS HPC for the Virtual Fire sub-applications
- Support the Aegean team with the MS Applications such as MS Silverlight and Virtual Earth (now Bing maps)

## Expected Participants:

University of the Aegean: Prof. Kostas Kalabokidis (Virtual Fire External PI), Prof. Konstantinos Chousiadass (Aegean HPC project), Dr. Christos Vasilakos (Virtual Fire index application manager), Paleologos Paleologou (GIS expert), Michael Pantelelis (software engineer), Nikolaos Athanasias (computer scientist), Panagiotis Papachiou (head of information technology & communications at the U. of the Aegean), Ioannis Dimou and Gabriel Hiotellis (computer scientists and technicians at the Dept. of Geography), Profs Michail Vaitis and Elias Symeonakis (geoinformatics, Dept. of Geography), Apostolos Papakonstantinou (Ph.D. candidate, Dept. of Geography), Giorgos Oikonomopoulos (computer scientist, INFODIM)

MS HPC: Vsevolod Ukrainsky (Seva), Jerzy Zamoyski

MS Hellas: Dimitris Gkanatsios (Development Platform Evangelist)

## MS Windows HPC server 2008 short description (pdf):



Adobe Acrobat  
Document

# Agenda – DAY 1

Tuesday 29 September 2009 – 6 hours

10:00- 16:30 EET

University of the Aegean, Dept. of Geography, Geography of Natural Disasters Laboratory & Geo-Informatics Laboratory, University Hill, 81100 Mytilene, Greece

1. High Productivity Computing with Windows; Windows HPC Server 2008 – Jerzy Zamoyski, MS HPC, 30 minutes
2. MS HPC overview – Seva Ukrainsky, MS HPC, 30 minutes  
Windows HPC Server 2008 Overview  
What's in the Package?  
HPC Pack 2008 Overview  
Planning Windows HPC cluster infrastructure
3. Examples of MS HPC server 2008 usage in the research and academic community – Seva 30 minutes

COFFEE BREAK 11:30-12:00

4. Installing the MS HPC Head Node (HN) – Seva 90 minutes  
Installing Windows Server 2008 Enterprise  
Configuring Networking  
Installing DNS and DHCP services  
Creating Active Directory Domain  
Installing HPC Pack 2008  
Configuring the Head Node  
HPC Cluster Management  
Configuring Cluster  
Preparing Images for Compute Nodes  
Configuring WDS

LUNCH BREAK 13:30-14:30

5. Installing the MS HPC Compute Nodes (CNs) -100 minutes  
Compute Nodes Automatic Deployment  
Compute Nodes Manual Deployment (optional)  
Joining HPC cluster  
Running Diagnostics
6. Discussion – 20 minutes

16:30 - END OF DAY 1

## Agenda – DAY 2

### Wednesday 30 September 2009 – 6.5 hours

10:00-16:30 EET

University of the Aegean, Dept. of Geography, Geography of Natural Disasters Laboratory & Geo-Informatics Laboratory, University Hill, 81100 Mytilene, Greece

1. Presentation of the University of the Aegean HPC requirements - Discussion, Konstantinos Chousiadas, Univ. of the Aegean – 90 minutes  
COFFEE BREAK 11:30-12:00
2. Virtual Fire sub-applications HPC needs, Christos Vasilakos, Univ. of the Aegean 30 minutes
3. Parallelisation options – Seva all 30 minutes
4. MS Silverlight and interfacing with Bing maps – Dimitris Gkanatsios, 30 minutes  
LUNCH BREAK 13:30-14:30
5. Examination of the Virtual Fire code – Issues and approaches, 60 minutes
5. Installation of the 3 donated HP servers (if available), Seva (in parallel)
6. Any Other Business – 60 minutes

END OF MEETING 16:30