

AEGIS GRID INFRASTRUCTURE

A. BALAŽ, D. VUDRAGOVIĆ, V. SLAVNIĆ, A. BELIĆ

SCIENTIFIC COMPUTING LABORATORY

INSTITUTE OF PHYSICS BELGRADE

[HTTP://WWW.SCL.RS/](http://www.scl.rs/)

PREGREVICA 118

11080 BELGRADE

SERBIA

SCIENTIFIC
COMPUTING
LABORATORY

ABSTRACT

SERBIAN NGI AEGIS HAS BEEN ESTABLISHED IN 2005, AND SINCE THEN IT HAS DEPLOYED AND DEVELOPED A WIDE AND GEOGRAPHICALLY DISTRIBUTED NATIONAL GRID INFRASTRUCTURE IN COLLABORATION AND WITH THE SUPPORT OF SEE-GRID AND EGEE SERIES OF PROJECTS. AEGIS IS COORDINATED AND REPRESENTED IN EGI BY THE INSTITUTE OF PHYSICS BELGRADE (IPB). HERE WE PRESENT AEGIS GRID INFRASTRUCTURE.

AEGIS03-ELEF-LEDA

- SITE STORAGE CAPACITY IS 2TB
- SITE CPU CAPACITY IS CURRENTLY BEING EXTENDED TO 64 CPUS INTEL XEON QUAD-CORE 2.4GHZ WITH 12MB L2 CACHE AND 4GB RAM PER NODE

- HOSTED AT THE LABORATORY FOR ELECTRONIC DESIGN AUTOMATION OF THE FACULTY OF ELECTRONIC ENGINEERING UNIVERSITY OF NIS

- CONSISTS OF 42 CPU CORES WITH THE TOTAL OF 40GB OF RAM

AEGIS04-KG

- INSTALLED AT THE BIOENGINEERING RESEARCH AND DEVELOPMENT CENTER OF THE UNIVERSITY OF KRAGUJEVAC

- CONSISTS OF 14 NODES WITH 2.0 GHZ AMD SEMPRON CPUS WITH 1GB OF RAM
- STORAGE AREA NETWORK (SAN) CLUSTER IS CONNECTED TO THE STORAGE ELEMENT VIA NFS

AEGIS02-RCUB

- INSTALLED AT THE BELGRADE UNIVERSITY COMPUTER CENTRE

- 27TB OF DISK SPACE
- SET OF 89 WORKER NODES 2X QUAD CORE XEON E5345 AT 2.33 GHZ WITH 8GB OF RAM
- 15 XEON BASED SERVICE NODES
- HOSTS STAGED-ROLLOUT BETA SERVICES
- HOSTS NATIONAL MONITORING INFRASTRUCTURE NAGIOS/MYEGI, PAKITI, GANGLIA

AEGIS01-IPB-SCL

- TIER-0 SITE IN THE SERBIAN GRID INFRASTRUCTURE
- MANAGING NATIONAL AEGIS VIRTUAL ORGANIZATION
- THE FIRST GRID SITE IN SERBIA
- PROVIDING ALL CORE SERVICES WMS/LB, PX, BDII, LFC, VOMS

- CONSISTS OF 30 AMD SEMPRON 2000+ CPUS, WITH 1GB RAM PER CPU

AEGIS05-ETFBG

- HOSTED AT THE SCHOOL OF ELECTRICAL ENGINEERING OF THE UNIVERSITY OF BELGRADE

- IBM LINUX CLUSTER, CONSISTS OF 16 NODES WITH THE TOTAL OF 64 HIGH-END INTEL CPUS

AEGIS11-MISANU

- INSTALLED AT THE MATHEMATICAL INSTITUTE OF THE SERBIAN ACADEMY OF SCIENCES AND ARTS

- BASED ON 128 INTEL XEON PROCESSORS WITH 32-BIT ARCHITECTURE AND THE TOTAL OF 96GB OF RAM
- MAINLY DEDICATED TO THE ATLAS VO COMMUNITY OF THE CERN LHC EXPERIMENT

AEGIS07-IPB-ATLAS

- SECOND SITE HOSTED BY THE SCIENTIFIC COMPUTING LABORATORY OF THE INSTITUTE OF PHYSICS BELGRADE

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- BASED ON XEN VIRTUAL MACHINES DEPLOYED ON A SINGLE NODE WITH TWO INTEL XEON QUAD-CORE CPUS WITH 16 GB OF RAM

AEGIS08-IPB-DEMO

- ANOTHER GRID SITE AT SCL OF THE INSTITUTE OF PHYSICS BELGRADE
- USED PURELY FOR EDUCATIONAL/TRAINING PURPOSES
- USED IN VARIOUS TRAINING EVENTS FOR DEMONSTRATION OF INSTALLATION AND CONFIGURATION OF DIFFERENT GRID SERVICES

EGI

