

PROJECT 1

In class presentations on characteristics of computational science and engineering PSEs

HY514

Group 1: Presentation on comparison of mathematical PSEs

Resources:

- a) http://en.wikipedia.org/wiki/Comparison_of_numerical_analysis_software
- b) <http://www.scientificweb.de/ncrunch/>

Group 2: Prepare presentation on GAMS system

Resources: <http://gams.nist.gov/>

Group 3: Presentation on PETSc PSE

Resources: <http://www.mcs.anl.gov/petsc/>

Group 4: Presentation on NEOS server

Resources: <http://www.neos-server.org/neos/>

Group 5: Presentation on Sage

Resources: Notes in eclass, <http://www.sagemath.org/>

Group 6: Presentation on Python

Resources: Notes in Houstis e-book (see eclass documents), many resources (check web)

Group 7: Presentation on MatLab

Resources: Notes in Houstis e-book (see eclass documents), many resources (check web)

Group 8: Presentation on MatLab Tool Boxes

Resources: Notes in Houstis e-book (see eclass documents), MatLab numerical optimization toolbox (2 pdf αρχεία στο eclass)