

MAGNUS

One of the most powerful public research supercomputers in the Southern Hemisphere

- World-class supercomputer in excess of 1 PetaFLOPS
- Cray XC40 featuring the 72 Gb/s Cray Aries interconnect
- Over 35,000 Intel 'Haswell' processor cores
- 3PB of scratch file storage
- Over 95TB of memory

GALAXY

Real-time computing for Australian radio astronomy

- Peak performance in excess of 200 TeraFLOPS
- Real-time system for Australian Square Kilometre Array (SKA) pathfinders and radio astronomy projects
- Cray XC30 system with over 9,000 Intel processor cores
- Over 30TB of memory
- 64 NVIDIA Kepler K20X GPUs

ZEUS

Pawsey's HPC stepping stone

- 92 nodes with 28-core "Broadwell" Intel Xeon processors with a 100 Gb/s Omni-Path interconnect
- 80 nodes with 64-core Intel Xeon Phi 7210 processors with a 100 Gb/s Omni-Path interconnect
- 11 nodes with four NVIDIA Tesla P100 SXM2 GPUs with a 100 Gb/s InfiniBand interconnect
- 6 nodes with 16-core "Broadwell" Intel tec-processor with 1 TB of RAM

NIMBUS CLOUD

An integrated data-intensive infrastructure

- 3000 cores and 16TB of RAM across 46 compute nodes
- 300TB (usable) of volume storage
- 12 NVidia V100 GPU nodes with Intel Xeon processors
- Available for HPC, interactive computing, machine learning and data analytics

ADVANCED WEB-BASED REMOTE VISUALISATION

- 20 nodes with Nvidia Quadro K5000 GPU and up to 512GB of memory
- Visualise large data without the need to transfer

WORLD-CLASS DATA STORAGE

- Up to 100PB of storage
- Two duplicate libraries for added resilience
- Connected at up to 40 GBps

HOW TO ACCESS PAWSEY SERVICES

- Access all services via collaboration with researchers in leading universities and CSIRO.
- Access data storage and sharing services directly via an online application form.
- Access supercomputers via an online application form for eligible researchers.

www.pawsey.org.au

SYSTEMS