FINIS TERRAE

- Last Updated (21.10.2009)

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FINIS TERRAE COMPUTER DESCRIPTION

FINIS TERRAE computer installed at CESGA is an integrated system with shared memory nodes with an SMP NUMA architecture. FINIS TERRAE is composed of:

144 computing nodes:

- 142 HP Integrity rx7640 nodes with 16 Itanium Montvale cores and 128 GB of memory each.
- 1 HP Integrity Superdome node, with 128 Itanium Montvale cores and 1.024 GB of memory.
- 1 HP Integrity Superdome node, with 128 Itanium 2 cores and 384 GB of memory.

A hierarchical storage system with:

- 22 nodes for storage management with a total of 96 processing cores.
- 390.000 GB in disc.
- 2.200.000 GB in robotized tape.

A network for interconnecting Infiniband 4x DDR nodes at 20Gbps.

An external connection network at 10 Gbps.

The system supports multiple operating systems at the same time, used by the research community, such as: Unix, Linux y Windows.

FINIS TERRAE includes free and standard software such as: Linux, Lustre, Grid Engine and Globus.

The system has the following compilers, libraries and development tools: Intel C/C y Fortran, Intel MKL, Vtune, HP-MPI and HP UPC.

Learn more about the applications installed in FINIS TERRAE.

FINIS TERRAE LAY OUT