Heterogeneous Multi-Computer System

CP-PACS (Radiation-SPH)

PAVEMENT/ PIO

Linux PC Cluster

32bit PCI x N

GRAPE-6 (gravity)

Parallel File Server (Origin2000)

PAVEMENT/VIZ

Visualization Server (Onyx2)
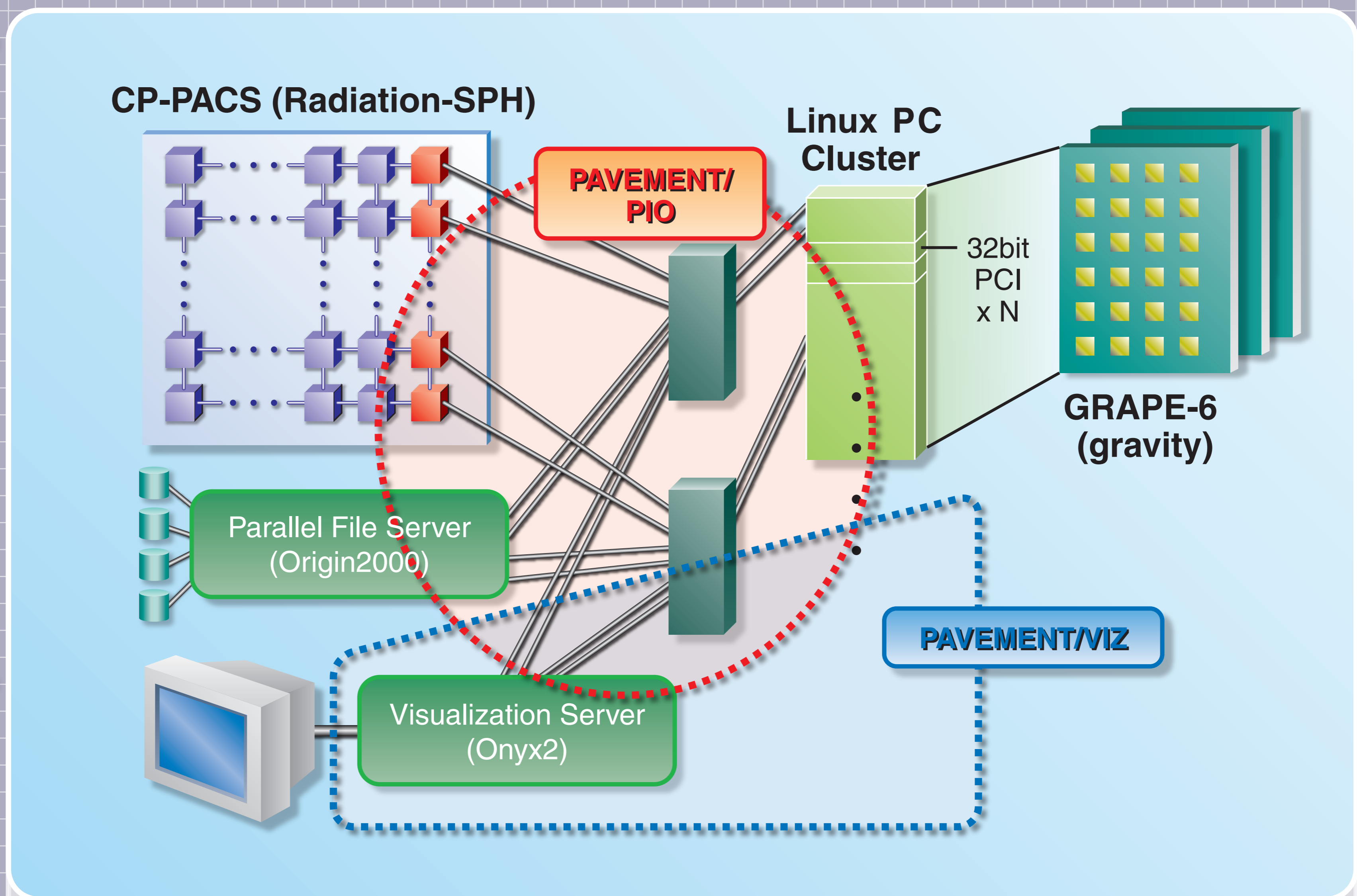
► **HMCS (Heterogeneous Multi-Computer System)** combines supercomputers for continuum simulation and multi-body simulation in a unified environment with high performance file server and parallelized visualization server.

► **PAVEMENT/PIO** provides high throughput data transfer among all components in HMCS via multiple commodity network. Communication latency is hidden by cooperative work among all supercomputers and servers.

► **PAVEMENT/VIZ** realizes very high speed data visualization on multiprocessor workstation. Especially, 3-D volume rendering engine is fully parallelized to obtain excellent scalability on multiprocessor.

Platform for Next Generation Multi-Scale Physics Simulation
Protein Simulation, Astrophysics, Material Science, etc.