

# CX1-LC

A "light configuration" version of the Cray CX1™ supercomputer with the flexibility, ease of use and growth potential of the original





# CRAY

## The Cray CX1-LC™ desktop supercomputer offers up to four compute blade slots, allowing a cluster of up to 32 cores to be built.

In addition, the Cray CX1-LC system also supports two compute blades coupled with two specialty blade types (visualization, storage or GPGPU) in order that six slots of the CX1-LC chassis may be used. The individual blade performance is the same, but by limiting the chassis to four blades the Cray CX1-LC supercomputer offers an even lower cost alternative for smaller configurations. In addition, the Cray CX1-LC system can be upgraded to a standard Cray CX1 eight blade slot configuration via the Cray CX1-LC upgrade kit.

### Cray CX1-LC KEY FEATURES

- Low cost CX1-LC chassis
- Very low cost entry level configuration when combined with the Gigabit Ethernet blade
- No loss in performance for smaller configurations (i.e., up to four compute blades)
- Broad range of Cray CX1 blades available
- Only one power supply (and power socket) is required
- Second power supply may be added for redundant power capability
- Upgrade path to full function Cray CX1 desktop supercomputer

### Cray CX1-LC UPGRADE KIT

The Cray CX1-LC system can be field upgraded to a "standard" Cray CX1 chassis via the Cray CX1-LC upgrade kit. Most notably this would allow the chassis to support all eight blade slots. The kit would include the zone B mid-plane and services required for installation. This upgrade can be done in less than half a day.

### Typical Cray CX1-LC CONFIGURATIONS

#### Entry level configuration:

- The price is comparable to a similarly configured workstation.
- Cray CX1-LC system with one compute blade, one power supply and Gigabit Ethernet.

#### Compute upgrade to existing Cray CX1 chassis:

- For existing Cray CX1 systems with a 12 port InfiniBand switch, this system would provide an economical compute upgrade by leveraging the existing InfiniBand switch and the lower cost Cray CX1-LC chassis.
- Cray CX1-LC system with four compute blades.

#### Full complement to a workstation environment:

- This would provide a significant upgrade to all aspects of an HPC workstation environment. It would enhance not only the compute capability, but also provide high end graphics and a shared storage capability. All users would have access to this capability, but not require an expensive workstation on each desk.
- Cray CX1-LC system with two compute blades, one visualization blade and one storage blade.

#### IO intensive applications (e.g., large NASTRAN simulations):

- Large NASTRAN vibration analysis stresses all aspects of the computer system, especially the IO performance. This configuration uses the storage nodes with 4 x SSD drive in the storage node to balance the IO capability with three compute performance.
- Cray CX1-LC system with two storage blades, each with 4 x SSD drive on the RAID controller.

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