

Roadrunner Entry Level System 12 Hybrid Node Cluster

- **12 Hybrid Compute Nodes**
 - 2 - *QS22s* a future IBM Cell blade containing two new enhanced double-precision IBM® PowerXCell™8i processors
 - 1 - *LS21* an IBM dual-socket Opteron blade
 - Connected via *four PCI-e x8* links
 - Includes a *ConnectX IB 4X DDR* cluster attachment
 - Compute node is *diskless*
 - *4-wide IBM BladeCenter* packaging
 - *24 QS22s and 12 LS21s* total
- 2 IBM x3655 I/O and Management Servers
- 24 port IB 4X DDR Switch & Fabric
- RHEL & Fedora Linux
- IBM SDK 3.0 for Multicore Acceleration
- IBM xCAT Cluster Management
 - *System-wide GigE network*

Characteristics	Host	Cell	Total
Peak (TF)	0.17	4.92	5.26
Memory (GB)	96 or 192	192	288-384
Ext IO (GB/s)	1.2	NA	1.2



**A mini-Roadrunner!
5 TeraFlop/s in a rack.**