

HP Unified
Cluster
Platform
4000

Planning
Template:
-Single Rack
-Gigabit Ethernet
-Opteron,Dual Core

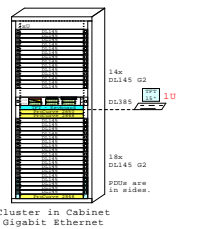
HP Cluster Platform 4000, Single Cabinet, Gigabit Ethernet, 32x ProLiant DL145 G2 Opteron 2.4GHz Dual Core

#1 Single Cabinet, max 32 nodes

Compute Nodes:AMD64 Opteron Dual Core

Console Network

Control Node:



BOM for one Compute Node DL145 G2, Dual Core

Part Number	Qty	Description
378024-405	1	HP DL145G2 xP CTO xxGHz xGB SCSI AMD64
357012-B21	2	36.4GB 15000r U320 NHP disk 1"
376638-B21	4	PC3200 1GB DDR SDRAM DIMM kit 2x512MB
390402-B21	1	HP Ultra320 FIO DL140/DL145G2 HBA
399444-B21	1	DL145G2 2.4GHz DC AMD64 280 CPU option K
399444-L21	1	DL145G2 2.4GHz DC AMD64 280 CPU FIO Base

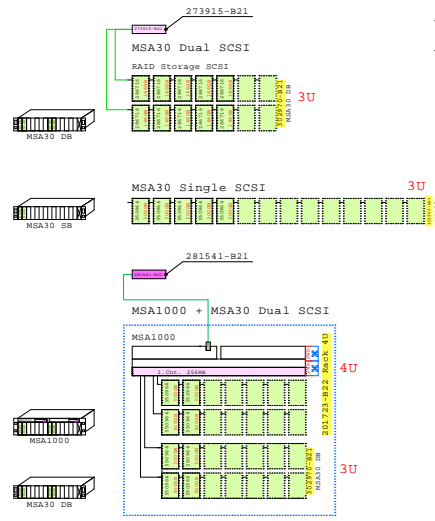
BOM for the Control Node DL385 and Switches

Part Number	Qty	Description
382608-405	1	HP DL385 xP CTO xxGH xGB SCSI AMD64
290563-B21	1	NC7771 PCI-X 10/100/1000-T Server Adapte
293048-B21	1	DL380 G3 hot plug blower kit,3x fans
331903-B21	1	CD-RW/DVD-ROM Option kit, slimline
350964-B22	6	300GB 10000r U320 disk 1"
355892-001	1	DL380 G4 second AC NEMA power supply
376190-B21	1	DL385 2.6GHz SC AMD64 252 CPU option kit
376190-L21	1	DL385 2.6GHz SC AMD64 252 FIO Base
376639-B21	4	PC3200 2GB DDR SDRAM DIMM kit 2x1GB
J4899A	1	ProCurve 2650 10/100-T 48+2=50 Port 1U
J4904A	2	ProCurve 2848 10/100/1000-T 44+4=48 Port

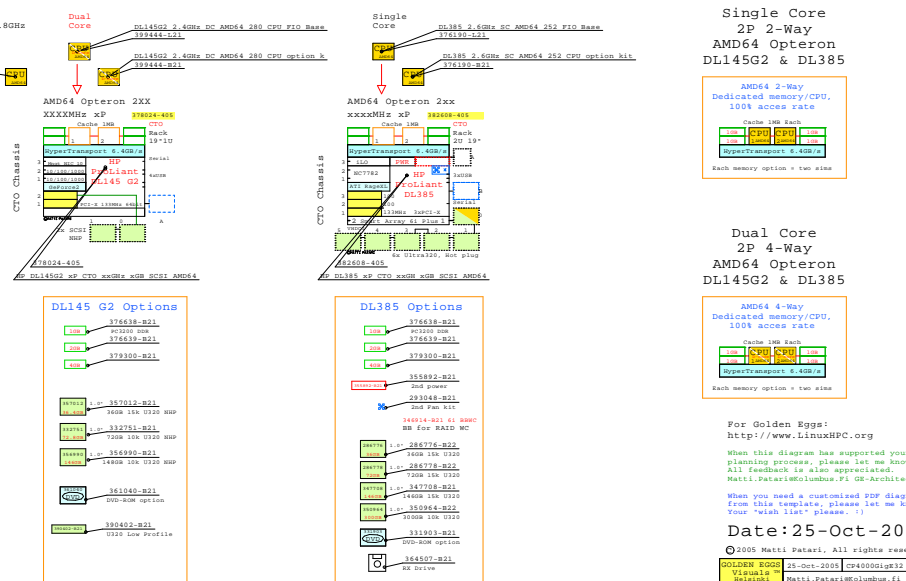
BOM for Optional Storage

Part Number	Qty	Description
201723-B22	1	MSA1000 RAID Array 256MB Rack 4U
302970-B21	1	MSA30 Dual Buss Ultra320 7+7 1"
350964-B22	4	300GB 10000r U320 disk 1"
350964-B22	4	300GB 10000r U320 disk 1"
302969-B21	1	MSA30 Single Buss Ultra320 14x1"
350964-B22	5	300GB 10000r U320 disk 1"
302970-B21	1	MSA30 Dual Buss Ultra320 7+7 1"
286716-B22	10	146.8GB 10000r U320 disk 1"
273915-B21	1	Smart Array 6402/128 Ultra320 2-chan
281541-B21	1	HBA 2Gb/s PCI FCA2214 for Linux

Optional Storage for second cabinet



Compute and Control Node CTO Systems



For more detailed configuring, please consult the latest HP QuickSpecs.

Global Golden Eggs Visuals: <http://www.LinuxHPC.org>

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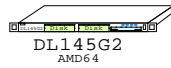
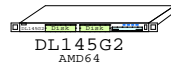
CP4000GigE32

HP Cluster Palatform 4000 AMD64 GOLDEN EGGS Visuals, Helsinki

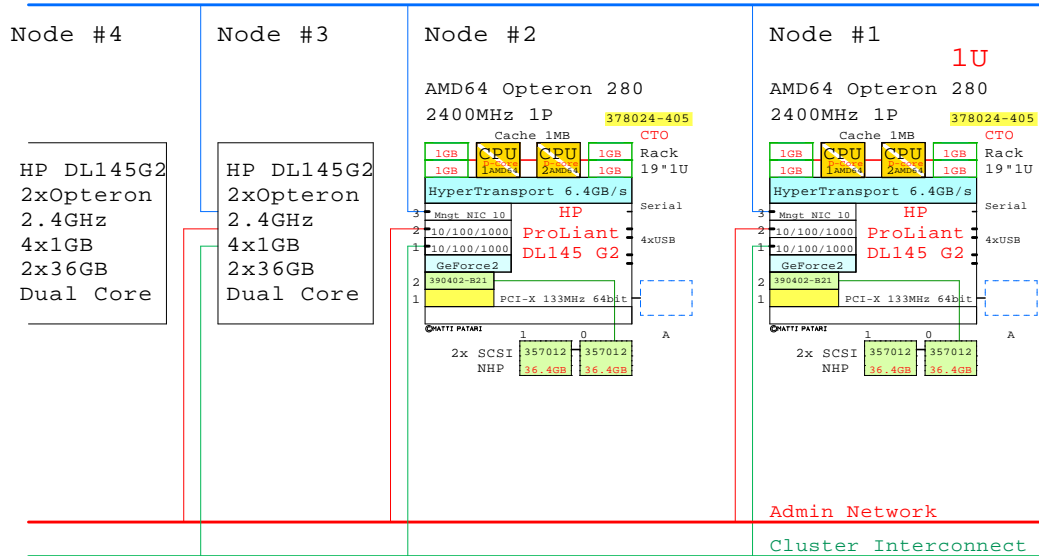
Date: 25-Oct-2005

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GOLDEN EGGS 25-Oct-2005 CP4000GigE32
V1.0001
Matti.Patari@LinuxHPC.org

net, 32x ProLiant DL145 G2 Opteron 2.4GHz Dual Core

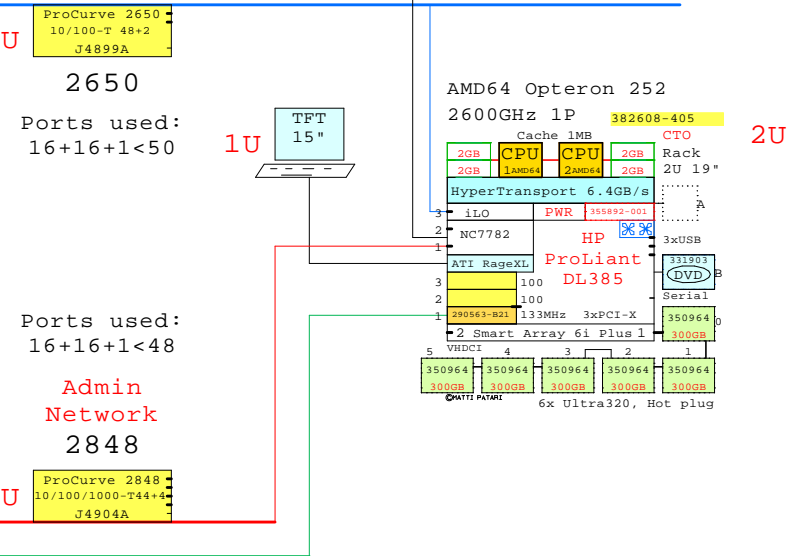


Compute Nodes: AMD64 Opteron Dual Core

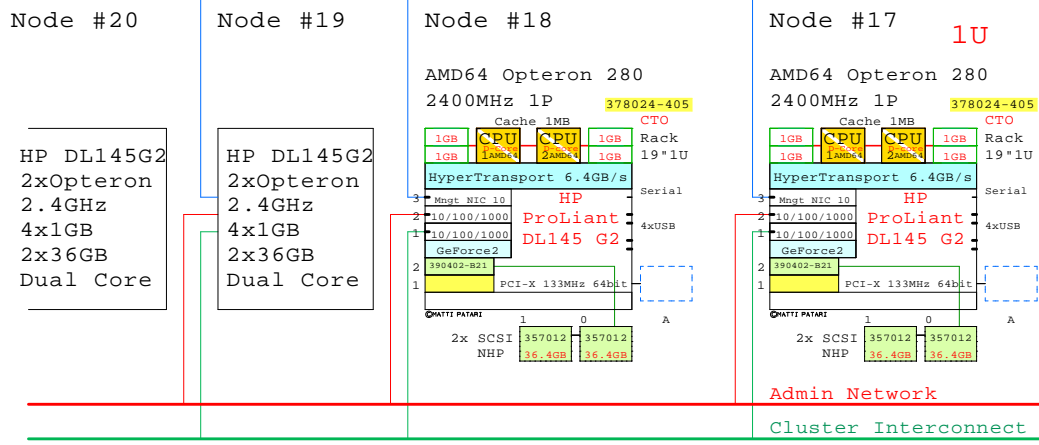


Console Network

Control Node:

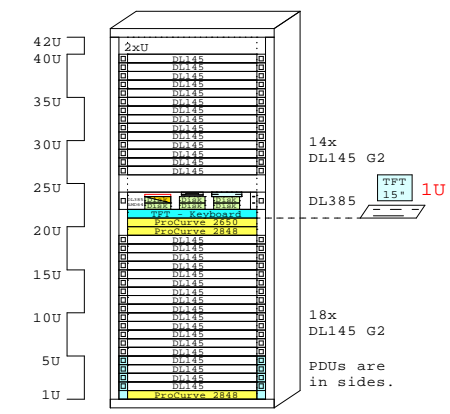


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Gigabit Ethernet

Cluster Interconnect
Ports used: 16+16+1 < 48

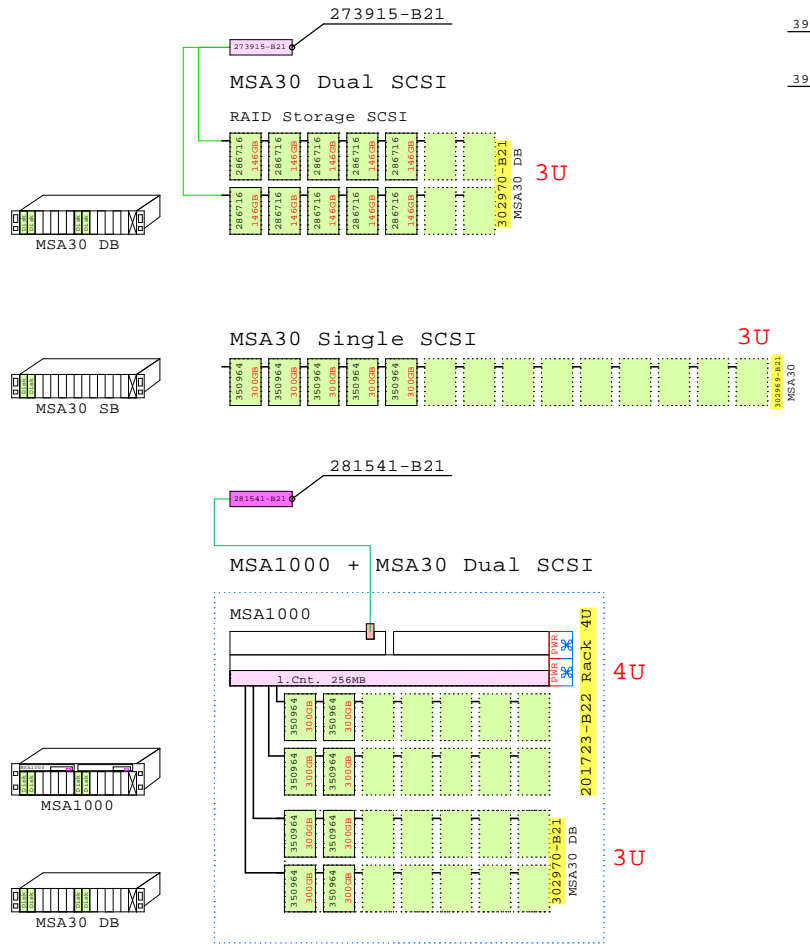


2x SCSI	1	0	A
NHP	357012	357012	
	36.4GB	36.4GB	

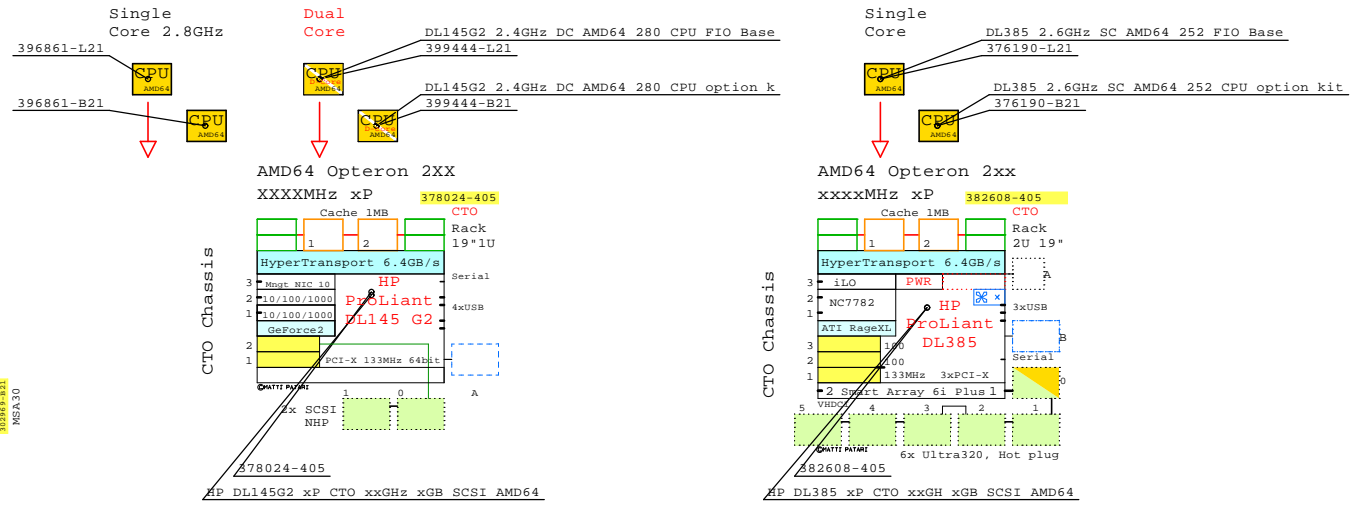
2x SCSI	1	0	A
NHP	357012	357012	
	36.4GB	36.4GB	

Admin Network
Cluster Interconnect

Optional Storage for second cabinet



Compute and Control Node CTO Systems



- #### DL145 G2 Options
- 1GB PC3200 DDR 376638-B21
 - 2GB PC3200 DDR 376639-B21
 - 4GB PC3200 DDR 379300-B21
 - 357012 1.0 357012-B21 36GB 15k U320 NHP
 - 332751 1.0 332751-B21 72GB 10k U320 NHP
 - 356990 1.0 356990-B21 148GB 10k U320 NHP
 - 361040 DVD-ROM option
 - 390402-B21 U320 Low Profile

- #### DL385 Options
- 1GB PC3200 DDR 376638-B21
 - 2GB PC3200 DDR 376639-B21
 - 4GB PC3200 DDR 379300-B21
 - 355892-B21 2nd power
 - 293048-B21 2nd Fan kit
 - 346914-B21 6i BBWC BB for RAID WC
 - 286776 1.0 286776-B22 36GB 15k U320
 - 286778 1.0 286778-B22 72GB 15k U320
 - 347708 1.0 347708-B21 146GB 15k U320
 - 350964 1.0 350964-B22 300GB 10k U320
 - 331903 DVD-ROM option
 - 364507-B21 RX Drive

HyperTransport 6.4GB/s

Each memory option = two sims

For Golden Eggs:
<http://www.LinuxHPC.org>

When this diagram has supported your
planning process, please let me know.
All feedback is also appreciated.
Matti.Patari@Kolumbus.Fi GE-Architect.

When you need a customized PDF diagram
from this template, please let me know.
Your "wish list" please. :)

Date: 25-Oct-2005

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