

HP Cluster Platform 4000, Three Cabinets, Gigabit Ethernet, 102x ProLiant DL145 Opteron 2.4GHz

HP Unified Cluster Platform 4000 Planning Template
 -Three Racks
 -Giga Ethernet
 -Opteron



Gigabit Ethernet 102 Nodes

Compute and Control Node Options

DL145

AMD64 2-way
Dedicated memory/CPU,
100% access rate

DL585

AMD64 4-way
Dedicated memory/CPU,
100% access rate

DL145 Options

- 1 - 2848-001
- 2 - 2848-002
- 3 - 2848-003
- 4 - 2848-004
- 5 - 2848-005
- 6 - 2848-006
- 7 - 2848-007
- 8 - 2848-008
- 9 - 2848-009
- 10 - 2848-010
- 11 - 2848-011
- 12 - 2848-012
- 13 - 2848-013
- 14 - 2848-014
- 15 - 2848-015
- 16 - 2848-016
- 17 - 2848-017
- 18 - 2848-018
- 19 - 2848-019
- 20 - 2848-020
- 21 - 2848-021
- 22 - 2848-022
- 23 - 2848-023
- 24 - 2848-024
- 25 - 2848-025
- 26 - 2848-026
- 27 - 2848-027
- 28 - 2848-028
- 29 - 2848-029
- 30 - 2848-030
- 31 - 2848-031
- 32 - 2848-032
- 33 - 2848-033
- 34 - 2848-034
- 35 - 2848-035
- 36 - 2848-036
- 37 - 2848-037
- 38 - 2848-038

DL585 Options

- 1 - 2848-001
- 2 - 2848-002
- 3 - 2848-003
- 4 - 2848-004
- 5 - 2848-005
- 6 - 2848-006
- 7 - 2848-007
- 8 - 2848-008
- 9 - 2848-009
- 10 - 2848-010
- 11 - 2848-011
- 12 - 2848-012
- 13 - 2848-013
- 14 - 2848-014
- 15 - 2848-015
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- 17 - 2848-017
- 18 - 2848-018
- 19 - 2848-019
- 20 - 2848-020
- 21 - 2848-021
- 22 - 2848-022
- 23 - 2848-023
- 24 - 2848-024
- 25 - 2848-025
- 26 - 2848-026
- 27 - 2848-027
- 28 - 2848-028
- 29 - 2848-029
- 30 - 2848-030
- 31 - 2848-031
- 32 - 2848-032
- 33 - 2848-033
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- 38 - 2848-038

Parts for one Compute Node DL145

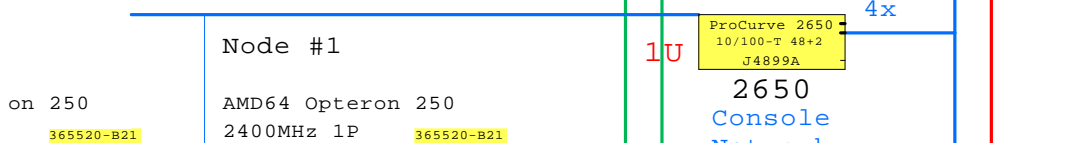
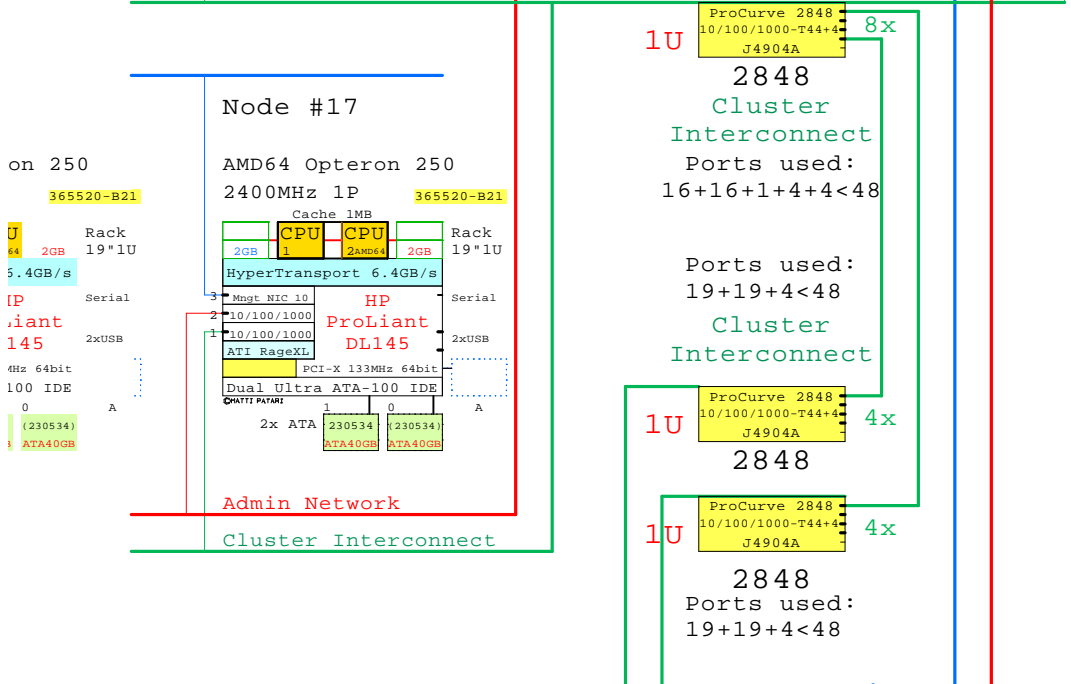
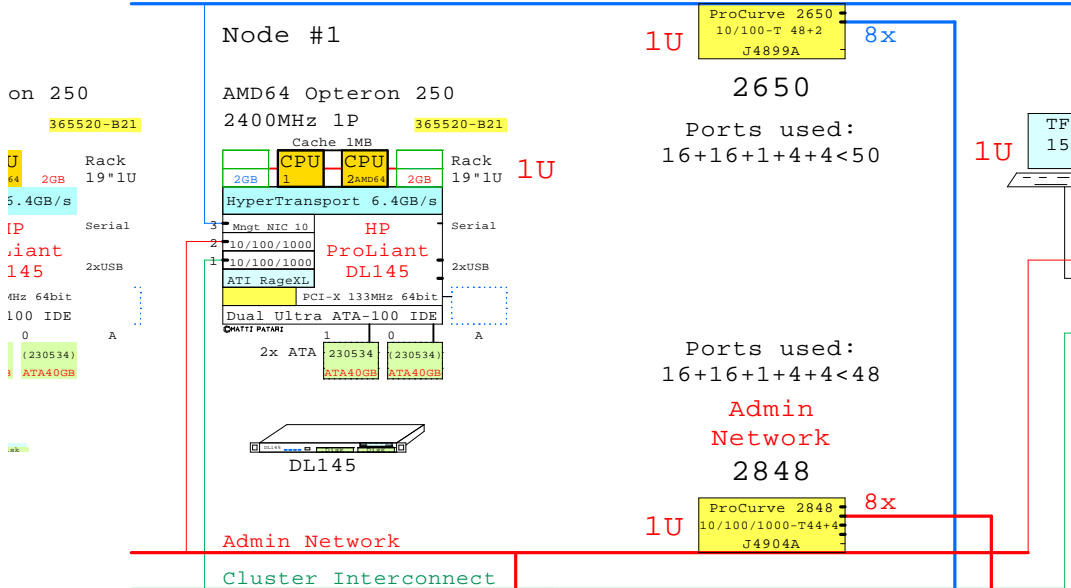
| Part Number | Qty | Description |
|-------------|-----|--|
| 2848-001 | 1 | HP ProLiant DL145 2.4GHz CPU 2GB 2x40GB |
| 2848-002 | 1 | HP ProLiant DL145 2.4GHz CPU 4GB 2x40GB |
| 2848-003 | 1 | HP ProLiant DL145 2.4GHz CPU 8GB 2x40GB |
| 2848-004 | 1 | HP ProLiant DL145 2.4GHz CPU 16GB 2x40GB |
| 2848-005 | 1 | HP ProLiant DL145 2.4GHz CPU 32GB 2x40GB |

Parts for one Control Node DL585, Storage and Switches

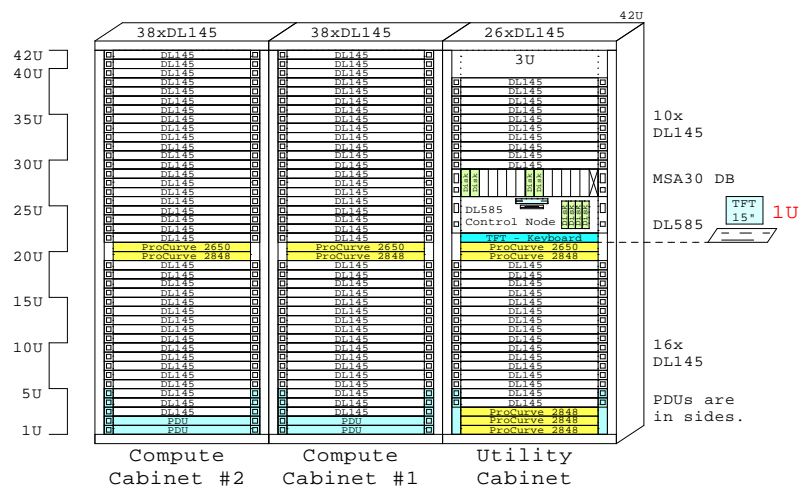
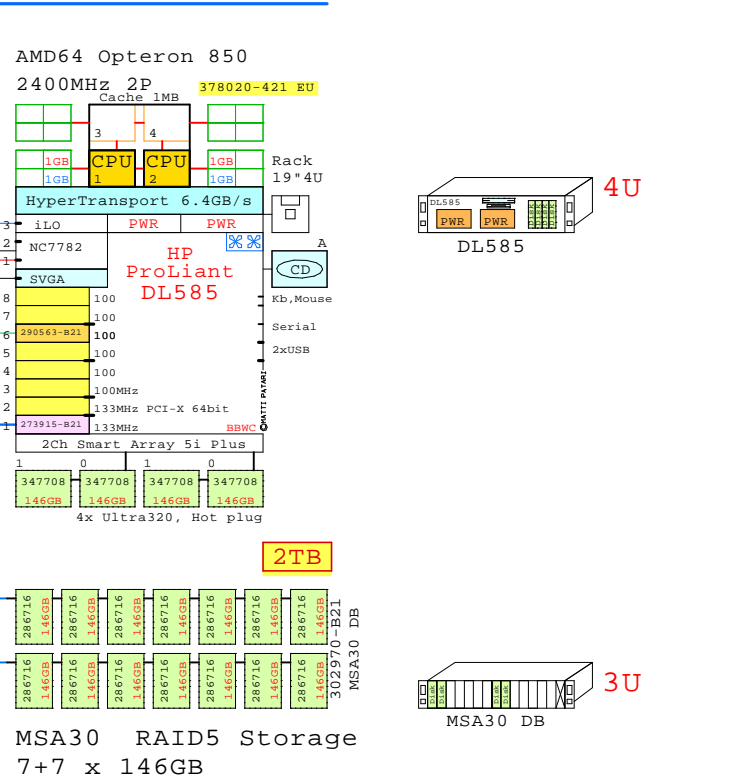
| Part Number | Qty | Description |
|-------------|-----|--|
| 2848-001 | 1 | HP ProLiant DL585 2.4GHz CPU 8GB 2x40GB |
| 2848-002 | 1 | HP ProLiant DL585 2.4GHz CPU 16GB 2x40GB |
| 2848-003 | 1 | HP ProLiant DL585 2.4GHz CPU 32GB 2x40GB |
| 2848-004 | 1 | HP ProLiant DL585 2.4GHz CPU 64GB 2x40GB |
| 2848-005 | 1 | HP ProLiant DL585 2.4GHz CPU 128GB 2x40GB |
| 2848-006 | 1 | HP ProLiant DL585 2.4GHz CPU 256GB 2x40GB |
| 2848-007 | 1 | HP ProLiant DL585 2.4GHz CPU 512GB 2x40GB |
| 2848-008 | 1 | HP ProLiant DL585 2.4GHz CPU 1024GB 2x40GB |
| 2848-009 | 1 | HP ProLiant DL585 2.4GHz CPU 2048GB 2x40GB |
| 2848-010 | 1 | HP ProLiant DL585 2.4GHz CPU 4096GB 2x40GB |
| 2848-011 | 1 | HP ProLiant DL585 2.4GHz CPU 8192GB 2x40GB |
| 2848-012 | 1 | HP ProLiant DL585 2.4GHz CPU 16384GB 2x40GB |
| 2848-013 | 1 | HP ProLiant DL585 2.4GHz CPU 32768GB 2x40GB |
| 2848-014 | 1 | HP ProLiant DL585 2.4GHz CPU 65536GB 2x40GB |
| 2848-015 | 1 | HP ProLiant DL585 2.4GHz CPU 131072GB 2x40GB |
| 2848-016 | 1 | HP ProLiant DL585 2.4GHz CPU 262144GB 2x40GB |
| 2848-017 | 1 | HP ProLiant DL585 2.4GHz CPU 524288GB 2x40GB |
| 2848-018 | 1 | HP ProLiant DL585 2.4GHz CPU 1048576GB 2x40GB |
| 2848-019 | 1 | HP ProLiant DL585 2.4GHz CPU 2097152GB 2x40GB |
| 2848-020 | 1 | HP ProLiant DL585 2.4GHz CPU 4194304GB 2x40GB |
| 2848-021 | 1 | HP ProLiant DL585 2.4GHz CPU 8388608GB 2x40GB |
| 2848-022 | 1 | HP ProLiant DL585 2.4GHz CPU 16777216GB 2x40GB |
| 2848-023 | 1 | HP ProLiant DL585 2.4GHz CPU 33554432GB 2x40GB |
| 2848-024 | 1 | HP ProLiant DL585 2.4GHz CPU 67108864GB 2x40GB |
| 2848-025 | 1 | HP ProLiant DL585 2.4GHz CPU 134217728GB 2x40GB |
| 2848-026 | 1 | HP ProLiant DL585 2.4GHz CPU 268435456GB 2x40GB |
| 2848-027 | 1 | HP ProLiant DL585 2.4GHz CPU 536870912GB 2x40GB |
| 2848-028 | 1 | HP ProLiant DL585 2.4GHz CPU 1073741824GB 2x40GB |
| 2848-029 | 1 | HP ProLiant DL585 2.4GHz CPU 2147483648GB 2x40GB |
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| 2848-031 | 1 | HP ProLiant DL585 2.4GHz CPU 8589934592GB 2x40GB |
| 2848-032 | 1 | HP ProLiant DL585 2.4GHz CPU 17179869184GB 2x40GB |
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| 2848-036 | 1 | HP ProLiant DL585 2.4GHz CPU 274877906944GB 2x40GB |
| 2848-037 | 1 | HP ProLiant DL585 2.4GHz CPU 549755813888GB 2x40GB |
| 2848-038 | 1 | HP ProLiant DL585 2.4GHz CPU 1099511627776GB 2x40GB |
| 2848-039 | 1 | HP ProLiant DL585 2.4GHz CPU 2199023255552GB 2x40GB |
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| 2848-050 | 1 | HP ProLiant DL585 2.4GHz CPU 4503599627370496GB 2x40GB |
| 2848-051 | 1 | HP ProLiant DL585 2.4GHz CPU 9007199254740992GB 2x40GB |
| 2848-052 | 1 | HP ProLiant DL585 2.4GHz CPU 18014398509481984GB 2x40GB |
| 2848-053 | 1 | HP ProLiant DL585 2.4GHz CPU 36028797018963968GB 2x40GB |
| 2848-054 | 1 | HP ProLiant DL585 2.4GHz CPU 72057594037927936GB 2x40GB |
| 2848-055 | 1 | HP ProLiant DL585 2.4GHz CPU 144115188075855872GB 2x40GB |
| 2848-056 | 1 | HP ProLiant DL585 2.4GHz CPU 288230376151711744GB 2x40GB |
| 2848-057 | 1 | HP ProLiant DL585 2.4GHz CPU 576460752303423488GB 2x40GB |
| 2848-058 | 1 | HP ProLiant DL585 2.4GHz CPU 1152921504606846976GB 2x40GB |
| 2848-059 | 1 | HP ProLiant DL585 2.4GHz CPU 23058430092136939536GB 2x40GB |
| 2848-060 | 1 | HP ProLiant DL585 2.4GHz CPU 46116860184273879072GB 2x40GB |
| 2848-061 | 1 | HP ProLiant DL585 2.4GHz CPU 92233720368547758144GB 2x40GB |
| 2848-062 | 1 | HP ProLiant DL585 2.4GHz CPU 184467440737095516288GB 2x40GB |
| 2848-063 | 1 | HP ProLiant DL585 2.4GHz CPU 368934881474191032576GB 2x40GB |
| 2848-064 | 1 | HP ProLiant DL585 2.4GHz CPU 737869762948382065152GB 2x40GB |
| 2848-065 | 1 | HP ProLiant DL585 2.4GHz CPU 1475739525936764130304GB 2x40GB |
| 2848-066 | 1 | HP ProLiant DL585 2.4GHz CPU 2951479051873528260608GB 2x40GB |
| 2848-067 | 1 | HP ProLiant DL585 2.4GHz CPU 5902958103747056521216GB 2x40GB |
| 2848-068 | 1 | HP ProLiant DL585 2.4GHz CPU 11805916207494113042432GB 2x40GB |
| 2848-069 | 1 | HP ProLiant DL585 2.4GHz CPU 23611832414988226084864GB 2x40GB |
| 2848-070 | 1 | HP ProLiant DL585 2.4GHz CPU 4722366482997645217728GB 2x40GB |
| 2848-071 | 1 | HP ProLiant DL585 2.4GHz CPU 9444732965995290435456GB 2x40GB |
| 2848-072 | 1 | HP ProLiant DL585 2.4GHz CPU 18889465319990580870912GB 2x40GB |
| 2848-073 | 1 | HP ProLiant DL585 2.4GHz CPU 37778930639981161741824GB 2x40GB |
| 2848-074 | 1 | HP ProLiant DL585 2.4GHz CPU 75557861279962323483648GB 2x40GB |
| 2848-075 | 1 | HP ProLiant DL585 2.4GHz CPU 151115722559924646972992GB 2x40GB |
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| 2848-078 | 1 | HP ProLiant DL585 2.4GHz CPU 1208925780479397135783392GB 2x40GB |
| 2848-079 | 1 | HP ProLiant DL585 2.4GHz CPU 2417851560958794275666784GB 2x40GB |
| 2848-080 | 1 | HP ProLiant DL585 2.4GHz CPU 4835703121917588551333568GB 2x40GB |
| 2848-081 | 1 | HP ProLiant DL585 2.4GHz CPU 9671406243835177102667136GB 2x40GB |
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| 2848-084 | 1 | HP ProLiant DL585 2.4GHz CPU 773712499506814168213318016GB 2x40GB |
| 2848-085 | 1 | HP ProLiant DL585 2.4GHz CPU 154742499901362833642666368GB 2x40GB |
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| 2848-091 | 1 | HP ProLiant DL585 2.4GHz CPU 99035199936872213513130483552GB 2x40GB |
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| 2848-094 | 1 | HP ProLiant DL585 2.4GHz CPU 79228159901497708105043828416GB 2x40GB |
| 2848-095 | 1 | HP ProLiant DL585 2.4GHz CPU 15845631880299541621008676832GB 2x40GB |
| 2848-096 | 1 | HP ProLiant DL585 2.4GHz CPU 31691263760599083242017353664GB 2x40GB |
| 2848-097 | 1 | HP ProLiant DL585 2.4GHz CPU 63382527521198166484034710720GB 2x40GB |
| 2848-098 | 1 | HP ProLiant DL585 2.4GHz CPU 126765055042396332968069421440GB 2x40GB |
| 2848-099 | 1 | HP ProLiant DL585 2.4GHz CPU 253530110084792665936138842880GB 2x40GB |
| 2848-100 | 1 | HP ProLiant DL585 2.4GHz CPU 507060220769585331872277677696GB 2x40GB |

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 HP Cluster Platform 4000 AMD64 GOLDEN EGGS Visuals, Helsinki
CP4000GigE102

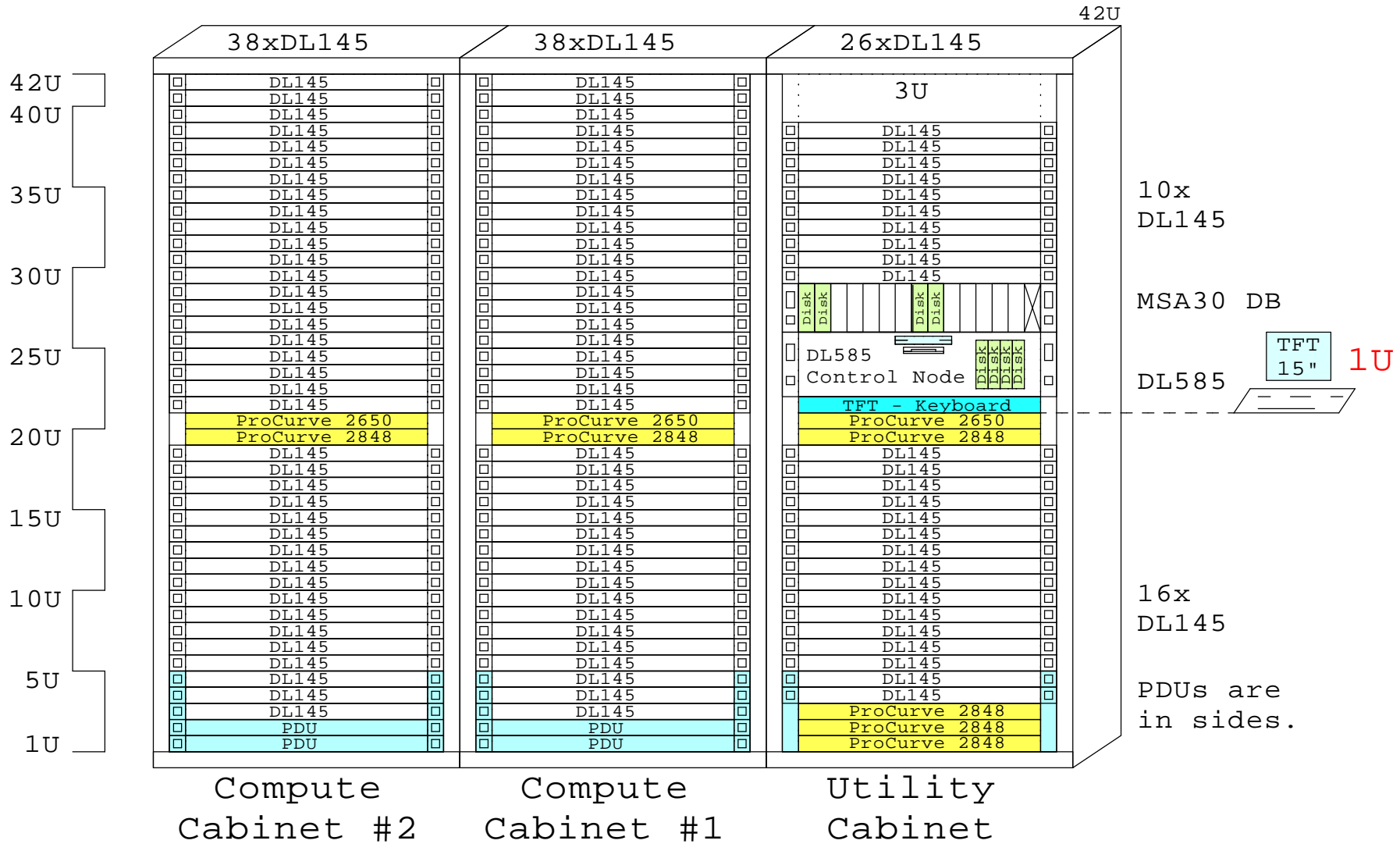
:AMD64 Opteron



Control Node:



Gigabit Ethernet 102 Nodes



Gigabit Ethernet 102 Nodes

Compute and Control Node Options

in
work

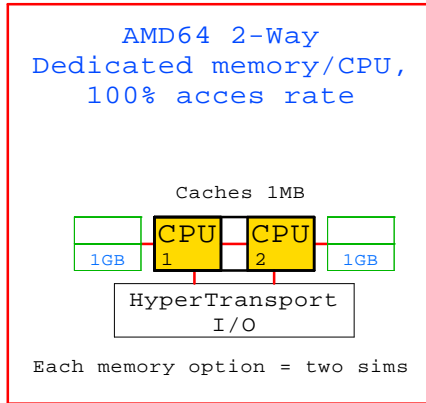
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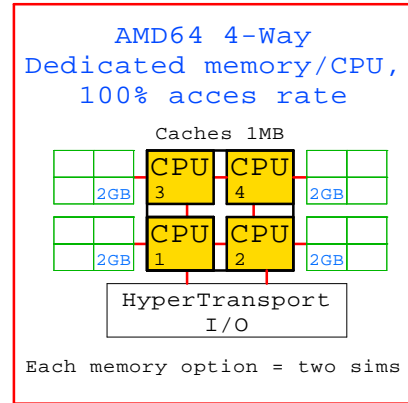
re 2848
00-T44+4
04A

used:
+4<48

DL145



DL585



DL145 Options

- CPU AMD64 366619-B21
2nd CPU AMD64
2400MHz
- 1GB 361037-B21
- 2GB 361038-B21
- 4GB 361039-B21
PC2700 DDR SDRAM
- 230534 1.0" 230534-B21
ATA40GB 40GB ATA 7200r
- 278424 1.0" 278424-B21
ATA80GB 80GB ATA 7200r
- 366486 1.0" 366486-B21
ATA160GB 160GB ATA 7200r
- 361040 361040-B21
DVD-ROM option

DL585 Options

- CPU AMD64 366725-B21
3rd and 4th CPU
2400MHz
Need Two
- 1GB 371047-B21
- 2GB 371048-B21
- 4GB 371049-B21
PC2700 DDR SDRAM
- 286776 1.0" 286776-B22
36GB 15k U320
- 286778 1.0" 286778-B22
72G 15k U320
- 347708 1.0" 347708-B21
146GB 15k U320
- 350964 1.0" 350964-B22
300G 10k U320

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re 2650
T 48+2
99A

50

Parts for one Compute Node DL145

| | Part Number | Qty | Description |
|-----|-------------|-----|--|
| 1 | 365520-B21 | 1 | HP ProLiant DL145 1P 2.4GHz 2GB 40GB ATA |
| 1.1 | 230534-B21 | 1 | 40-GB ATA/100 7200r disk drive 1" |
| 1.2 | 361038-B21 | 1 | PC2700 2GB Memory option kit 2x1GB |
| 1.3 | 366619-B21 | 1 | DL145 2.4GHz AMD64 250 CPU option kit |

Parts for the Controll Node DL585, Storage and Switches

| | Part Number | Qty | Description |
|-----|-------------|-----|--|
| 1 | 378020-421 | 1 | HP ProLiant DL585 2.4GHz 1MB 2GB 2P AMD6 |
| 1.1 | 273915-B21 | 1 | Smart Array 6402/128 Ultra320 2-chan |
| 1.2 | 290563-B21 | 1 | NC7771 PCI-X 10/100/1000-T Server Adapte |
| 1.3 | 347708-B21 | 4 | 146.8GB 15000r U320 disk 1" |
| 1.4 | 371047-B21 | 2 | PC2700 1GB DDR SDRAM DIMM kit 2x512MB |
| 2 | 302970-B21 | 1 | MSA30 Dual Buss Ultra320 7+7 1" |
| 2.1 | 286716-B22 | 14 | 146.8GB 10000r U320 disk 1" |
| 3 | J4899A | 3 | ProCurve 2650 10/100-T 48+2=50 Port 1U |
| 4 | J4904A | 6 | ProCurve 2848 10/100/1000-T 44+4=48 Port |

```
2.1          286716-B22      14 146.8GB 10000r U320 disk 1"
3           J4899A         3 ProCurve 2650 10/100-T 48+2=50 Port 1U
4           J4904A         6 ProCurve 2848 10/100/1000-T 44+4=48 Port
```

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When this diagram has influenced on your
purchase decision, please let me know.
Matti.Patari@Kolumbus.fi GE-Architect.

Date: 16-Mar-2005

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| | | |
|--|--------------------------|---------------|
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| | Matti.Patari@Kolumbus.fi | |
| HP Cluster Palatform 4000 AMD64 GOLDEN EGGS Visuals, Helsinki | | |

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