

Composition

- 1 R640
- 2 R720
- 2 R720+K20
- 1 R730+K20
- 1 R730+K80
- 2 R720+PHI
- 1 R730
- 4 R820

R640

CPU	2 x Intel(R) Xeon(R) Silver 4116 CPU @ 2.10GHz → 24 cores
Memory	64Go

R720

CPU	2 x Intel(R) Xeon(R) CPU E5-2670 0 @ 2.60GHz → 16 cores
Memory	256Go

R720 + K20

CPU	2 x Intel(R) Xeon(R) CPU E5-2670 0 @ 2.60GHz → 16 cores
Memory	256Go
GPU	2 x NVidia Tesla K20m

R730 + K20

CPU	2 x Intel(R) Xeon(R) CPU E5-2670 v3 @ 2.30GHz → 24 cores
Memory	256Go
GPU	1 x NVidia Tesla K20m

R730 + K80

CPU	2 x Intel(R) Xeon(R) CPU E5-2630 v4 @ 2.20GHz → 20 cores
Memory	256Go
GPU	1 x NVidia Tesla K80

R720 + PHI

CPU	2 x Intel(R) Xeon(R) CPU E5-2670 0 @ 2.60GHz → 16 cores
Memory	256Go
Coprocésseurs	2 x INTEL XEON PHI 5110P

R730

CPU	2 x Intel(R) Xeon(R) CPU E5-2699 v3 @ 2.30GHz → 36 cores
Memory	512Go
CPU	2 x Intel(R) Xeon(R) CPU E5-2650 v4 @ 2.20GHz → 24 cores
Memory	256Go
CPU	2 x Intel(R) Xeon(R) CPU E5-2630 v4 @ 2.20GHz → 20 cores
Memory	256Go

R820

CPU	4 x Intel(R) Xeon(R) CPU E5-4620 0 @ 2.20GHz → 32 cores
Memory	512Go

Total

Nous avons à disposition :

Machine	Quantité	Cores	Total	Mémoire par machine (Go)	Puissance théorique (hors coprocesseur)
R640	1	24	24	64	24 * 2,10GHz * 16 flops = 806,4 Gflops
R720	2	16	32	256	32 * 2,60GHz * 8 flops = 665,6 Gflops
R720 + K20	2	16	32	256	16 * 2,60GHz * 8 flops = 332,8 Gflops
R730 + K20	1	24	24	256	24 * 2,30GHz * 16 flops = 883,2 Gflops
R730 + K80	1	20	20	256	20 * 2,20GHz * 16 flops = 704 Gflops
R720 + PHI	2	16	32	256	16 * 2,60GHz * 8 flops = 332,8 Gflops
R730	3	36+24+20	80	512 + 2*256	36 * 2,30GHz * 16 flops = 2 873,6 Gflops
R820	4	32	128	512	32 * 2,20GHz * 8 flops = 563,2 Gflops
Total	16		372	4 416	7 161,6 Gflops

Réseau

L'interconnexion se fait en 10Go optique, sur commutateur Dell PowerConnect 8132F.

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