

# Composition

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

## R720

<b>CPU</b>	2 x Intel(R) Xeon(R) CPU E5-2670 0 @ 2.60GHz → 16 cores
<b>Memory</b>	256Go
<b>Storage</b>	6To

## R720 + K20

<b>CPU</b>	2 x Intel(R) Xeon(R) CPU E5-2670 0 @ 2.60GHz → 16 cores
<b>Memory</b>	256Go
<b>GPU</b>	2 x <a href="#">NVidia Tesla K20m</a>
<b>Storage</b>	6To

## R730 + K20

<b>CPU</b>	2 x Intel(R) Xeon(R) CPU E5-2670 v3 @ 2.30GHz → 24 cores
<b>Memory</b>	256Go
<b>GPU</b>	1 x <a href="#">NVidia Tesla K20m</a>
<b>Storage</b>	14To

## R730 + K80

<b>CPU</b>	2 x Intel(R) Xeon(R) CPU E5-2630 v4 @ 2.20GHz → 20 cores
<b>Memory</b>	256Go
<b>GPU</b>	1 x <a href="#">NVidia Tesla K80</a>
<b>Storage</b>	3To

## R720 + PHI

<b>CPU</b>	2 x Intel(R) Xeon(R) CPU E5-2670 0 @ 2.60GHz → 16 cores
<b>Memory</b>	256Go
<b>Coprocésseurs</b>	2 x INTEL XEON PHI 5110P
<b>Storage</b>	6To

## R730

<b>CPU</b>	2 x Intel(R) Xeon(R) CPU E5-2699 v3 @ 2.30GHz → 18 cores
<b>Memory</b>	512Go
<b>Storage</b>	13To
<b>CPU</b>	2 x Intel(R) Xeon(R) CPU E5-2650 v4 @ 2.20GHz → 24 cores
<b>Memory</b>	256Go
<b>Storage</b>	18To
<b>CPU</b>	2 x Intel(R) Xeon(R) CPU E5-2630 v4 @ 2.20GHz → 20 cores
<b>Memory</b>	256Go
<b>Storage</b>	20To

## R820

<b>CPU</b>	4 x Intel(R) Xeon(R) CPU E5-4620 0 @ 2.20GHz → 32 cores
<b>Memory</b>	512Go
<b>Storage</b>	5,5To

## Total

Nous avons à disposition :

Machine	Quantité	Cores	Total	Mémoire par machine (Go)	Stockage par machine (To)	Puissance théorique (hors coprocesseur)
R720	2	16	32	256	6	32 * 2,60GHz * 8 flops = 665,6 Gflops
R720 + K20	2	16	32	256	6	16 * 2,60GHz * 8 flops = 332,8 Gflops
R730 + K20	1	24	24	256	14	24 * 2,30GHz * 16 flops = 883,2 Gflops
R720 + PHI	2	16	32	256	6	16 * 2,60GHz * 8 flops = 332,8 Gflops
R730	3	36+24+20	80	512 / 2*256	13	36 * 2,30GHz * 16 flops = 1324,8 Gflops
R820	4	32	128	512	5,5	32 * 2,20GHz * 8 flops = 563,2 Gflops
<b>Total</b>	<b>12</b>		<b>284</b>	<b>4 352</b>	<b>85</b>	<b>4 102,4 Gflops</b>

## Réseau

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

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