

Composition

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

R720

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

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 |
| Storage | 6To |

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 |
| Storage | 14To |

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 |
| Storage | 6To |

R730

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

| | |
|----------------|-------|
| Memory | 256Go |
| Storage | 20To |

R820

| | |
|----------------|---|
| CPU | 4 x Intel(R) Xeon(R) CPU E5-4620 0 @ 2.20GHz → 32 cores |
| Memory | 512Go |
| Storage | 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 = 1 324,8 Gflops |
| R820 | 4 | 32 | 128 | 512 | 5,5 | 32 * 2,20GHz * 8 flops = 563,2 Gflops |
| Total | 12 | | 284 | 4 352 | 85 | 4 102,4 Gflops |

Réseau

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

From: <https://docinfo.ias.u-psud.fr/> - Informations, recommandations et conseils du service informatique de l'IAS

Permanent link: https://docinfo.ias.u-psud.fr/doku.php/calcul:cluster:description_des_machines?rev=1483622528

Last update: 2017/01/05 14:22