

Wikiprint Book

Title: Relacion colas-Hardware

Subject: TracMeteo - HardwareCluster

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- ncpus: real processors
- np: virtual processors los que están disponibles para ejecutar un job task
- walltime: Amount of realtime a job can be in Running state

Relacion colas-Hardware

COLA	Uso	HARDWARE	Nº nodos	Total processors	max.walltime
bamd	General	Blade amd	4	32	
bintel	General	Blade Intel	12	192	
tlustre	General	Twin lustre	9	32	
ensembles	Ensembles	""	9	32	
operativa])	asnas	Twin no lustre	7	56	
tintel (1)	General	""	7	56	1:00
grid	General	dell	8	16	
course	General	""	8	16	

1: Las colas tintel y operativa comparten nodos, tintel solo permite Jobs con walltime inferiores a una hora, si no se especifica walltime será de una hora pasado ese walltime mueren . **PBS: job killed: walltime exceeded limit 3600**

Hardware

Blade

4 nodos AMD

wn037 wn038 wn047 wn048

- Processor: 2 [?AMD Opteron\(TM\) Processor 6212](#) (8 Cores, 8mbCache, 2,6 GHz, 6.4 GT/s FSB)
- Hard Disk: 500GB

```
* Node Features (properties): amd
* Phymem: 32GB (30,8Gb libres)
* ncpus = 16
* np=16
```

12 nodos Intel

wn031-wn036, wn041-wn046

- Processor: 2 [?Intel\(R\) Xeon\(R\) E5620](#) (4 Cores,8 threads, 12M Cache, 2.40 GHz, 5.86 GT/s Intel® QPI)
- Tiene habilitado Hyper Threating
- Hard Disk: 250GB

```
* Node Features (properties): dinblade
* Phymem: 16GB (15,1 Gb libre)
* ncpus = 16
* np=16
```

Nodos Twin

wn010-wn025

- Processor: 2 [?Intel\(R\) Xeon\(R\) CPU E5410](#) (4 Cores, 12M Cache, 2.3 GHz, 1.3 GT/s Intel® QPI)
- Hard Disk: 250GB

9 nodos lustre

Son nodos en los que se encuentra implementado el almacenamiento distribuido de 15Tb /lustre, los diferenciamos del resto de Twin porque estan limitados para el calculo.

Impares: wn011, wn013, wn015,wn017,wn019,wn021,wn023,wn025 y wn024

```
* Node Features (properties): osdlustre y mdslustre (solo wn024 con 24GB)
* Phymem: 8GB (7,3Gb libre)
* ncpus = 8
* np=4
```

7 nodos nolustre

Pares: wn010,wn012,wn014,wn016,wn018,wn020,wn022

```
* Node Features (properties): twinib
* Phymem: 8GB
* ncpus = 8
* np=8
```

nodos dell

8 nodos dell

wn002-wn009

- Processor: [?Intel\(R\) Pentium\(R\) D 930 CPU 3.00GHz](#)
- Hard Disk: 300GB

```
* Node Features (properties): dell
* Phymem: 2G (1,6Gb libre)
* ncpus = 2
* np=2
```

Resumen

```
[root@encina ~]# cat /var/spool/torque/server_priv/nodes | grep wn0[01234] | sort
wn002 np=2 dell
wn003 np=2 dell
wn004 np=2 dell
wn005 np=2 dell
wn006 np=2 dell
wn007 np=2 dell
wn008 np=2 dell
wn009 np=2 dell
wn010 np=8 twinib
wn011 np=4 osdlustre
wn012 np=8 twinib
wn013 np=4 osdlustre
wn014 np=8 twinib
wn015 np=4 osdlustre
wn016 np=8 twinib
wn017 np=4 osdlustre
wn018 np=8 twinib
wn019 np=4 osdlustre
wn020 np=8 twinib
wn021 np=4 osdlustre
wn022 np=8 twinib
```

```
wn023 np=4 osdlustre
wn024 np=8 mdslustre
wn025 np=8 osdlustre
wn031 np=8 ensembles
wn032 np=16 dinblade
wn033 np=16 dinblade
wn034 np=16 dinblade
wn035 np=16 dinblade
wn036 np=16 dinblade
wn037 np=16 amd
wn038 np=16 amd
wn041 np=16 dinblade
wn042 np=16 dinblade
wn043 np=16 dinblade
wn044 np=16 dinblade
wn045 np=16 dinblade
wn046 np=16 dinblade
wn047 np=16 amd
wn048 np=16 amd
```