

# Kaspied

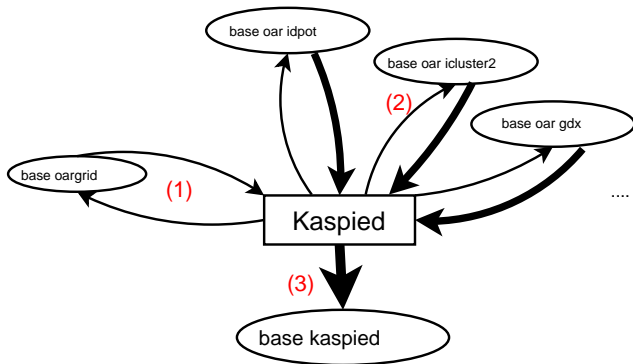
Lucas Nussbaum

Doctorant, ID-IMAG (Grenoble)



# Principe

- Objectif : Rassemblement et analyse de données sur Grid5000
- Récupère les informations des bases OAR de chaque site dans une base centrale



- **clusters**(clustername, weight, site)
- **clusterJobs**(clusterName,jobId, jobType, queName, reservation, weight, startTime, stopTime, user, nbNodes, split)
- **jobsIntervals**(clusterName, jobId, intStart, intStop, timeType, duration)

# Exemple

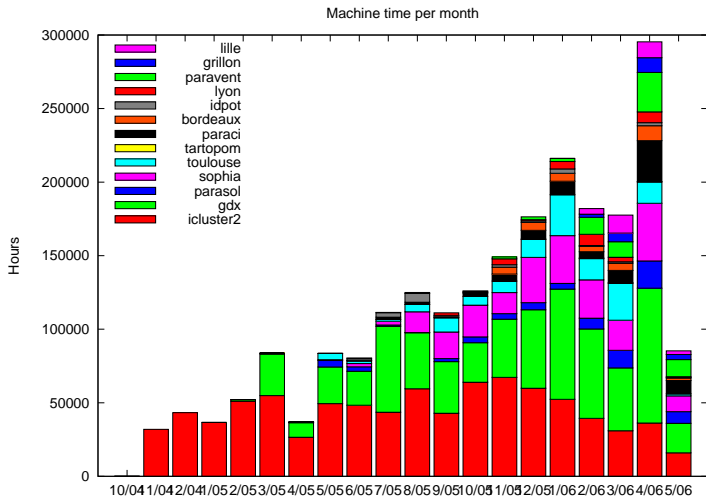
```
mysql> select startTime, stopTime, nbNodes, weight, user
from clusterJobs where clusterName = 'idpot' and jobId = 68015;
```

```
+-----+-----+-----+-----+-----+
| startTime          | stopTime          | nbNodes | weight | user      |
+-----+-----+-----+-----+-----+
| 2006-03-02 10:22:08 | 2006-03-02 12:22:16 |      2 |      1 | lnussbaum |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

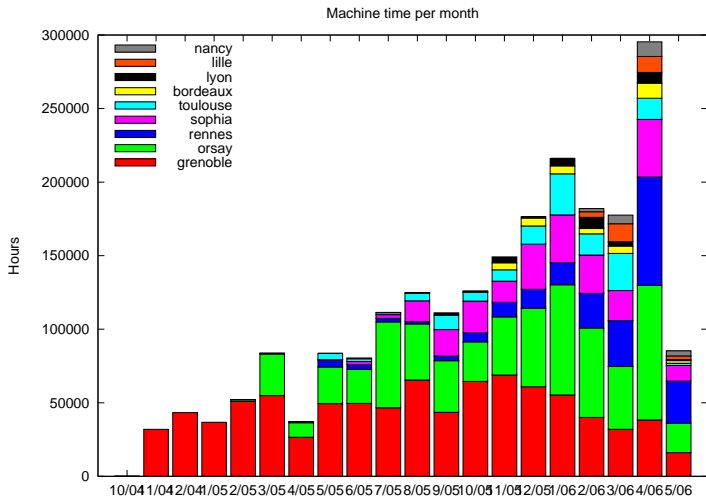
```
mysql> select * from jobsIntervals where clustername = 'idpot' and jobId = 68015;
```

```
+-----+-----+-----+-----+-----+-----+
| clusterName | jobId | intStart          | intStop          | timeType | duration |
+-----+-----+-----+-----+-----+-----+
| idpot       | 68015 | 2006-03-02 10:00:00 | 2006-03-02 11:00:00 | total    | 2272 |
| idpot       | 68015 | 2006-03-02 10:00:00 | 2006-03-02 11:00:00 | day      | 2272 |
| idpot       | 68015 | 2006-03-02 11:00:00 | 2006-03-02 12:00:00 | total    | 3600 |
| idpot       | 68015 | 2006-03-02 11:00:00 | 2006-03-02 12:00:00 | day      | 3600 |
| idpot       | 68015 | 2006-03-02 12:00:00 | 2006-03-02 13:00:00 | total    | 1336 |
| idpot       | 68015 | 2006-03-02 12:00:00 | 2006-03-02 13:00:00 | day      | 1336 |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.01 sec)
```

# Temps machine par cluster par mois



# Temps machine par site par mois



# Temps machine total par jour de la semaine

```
+-----+-----+
| Day      | totaltime |
+-----+-----+
| Wednesday | 333527.5517 |
| Thursday  | 332422.1265 |
| Friday    | 323583.4151 |
| Tuesday   | 322935.0899 |
| Saturday  | 300669.2747 |
| Monday    | 297872.5450 |
| Sunday    | 293553.5049 |
+-----+-----+
```

Day	totaltime
Wednesday	333527.5517
Thursday	332422.1265
Friday	323583.4151
Tuesday	322935.0899
Saturday	300669.2747
Monday	297872.5450
Sunday	293553.5049

# Temps machine total par heure de la journée

Hour	totaltime
0	95976.8482
1	93867.0285
2	88223.6344
3	85683.2968
4	83175.6411
5	80317.7969
6	77401.5126
7	75595.7263
8	70796.9335
9	77415.9715
10	88744.9065
11	95505.3774
12	94232.2317
13	97375.9493
14	103585.1715
15	104561.3822
16	104934.6788
17	100853.5011
18	98009.3943
19	91279.5585
20	98329.5950
21	99945.8492
22	100797.2096
23	97954.3129



# Plus gros consommateurs de temps machine depuis 01/01/06

user	totaltimehours
ejeanvoine	111062.4571
shadrokh	62363.1844
mjan	61239.8447
mmezma	60730.3636
aleb	44942.0992
cmijoule	40647.4272
whoarau	30118.6644
sjafar	24847.4183
operes	20460.4858
erodriguez	19052.8261
agrnski	18587.1392
pinte	17837.1106
rbolze	16469.8749
ejeannot	15601.4985
arezmerita	13610.9328

# Plus gros consommateurs de temps machine en journée (9h-18h) depuis 01/01/06

user	totaltimehours
shadrokh	16558.0444
alebre	12768.5886
arezmerita	11105.0561
rbolze	10416.7253
cmijoule	10345.1108
ejeanvoine	7980.2379
cdemarey	7462.9856
whoarau	7261.8561
cmathieu	7055.5063
agronski	6320.9989
adicosta	5951.6888
mjan	5678.6657
erodriguez	5187.5208
bquetier	4694.5067
pkchouhan	4593.2042

- Plus de résultats, plus jolis
- Statistiques dynamiques : par utilisateur, par (utilisateur, cluster)
- Gérer les utilisateurs extérieurs à Grid5000 via une table users
- Permettre les stats sur la disponibilité des clusters et des noeuds (via la table nodeState\_log de OAR)
- fermeture des comptes ? OAR2 ?

**Des volontaires ? :-)**