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Workers on odoo

Number of workers

Calculate workers amount:

```
Number of CPUs * 2 + 1
```

Example:

```
lscpu # 2*2+1 = 5 workers
```

Amount of memory

We will use 5 workers for calculation and 4GB RAM, 1GB RAM for OS and 3GB for odoo.

limit_memory_hard and limit_memory_hard

Calculate:

```
MB of RAM * workers * 1024 * 1024
```

Example:

```
1024MB * 5 * 1024 * 1024 = 5368709120
```

Total of ram to use

Calculate:

```
#worker * ( (light_worker_ratio * light_worker_ram_estimation) +  
(heavy_worker_ratio * heavy_worker_ram_estimation) )
```

Example for 3GB of RAM:

```
5 * ((0.5 * 150MB)+(0.5*1024MB)) = 3GB RAM
```

- light_worker_ratio = 50% of processes are light
- heavy_worker_ratio = 50% of processes are heavy

odoo.conf configuration

Before [options] section:

```
limit_memory_soft = 786432000
limit_memory_hard = 5368709120
limit_request = 8192
limit_time_cpu = 600
limit_time_real = 1200
max_cron_threads = 1
workers = 5
```

Libreoffice Calc calculator

A ugly but working calculator on libreoffice:

`calculadora_procesos_odoo.ods`

References

- <https://www.odoo.com/documentation/12.0/setup/deploy.html>
- <https://www.odoo.com/documentation/12.0/reference/cmdline.html#reference-cmdline>
- <https://www.rosehosting.com/blog/how-to-speed-up-odoo/>

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