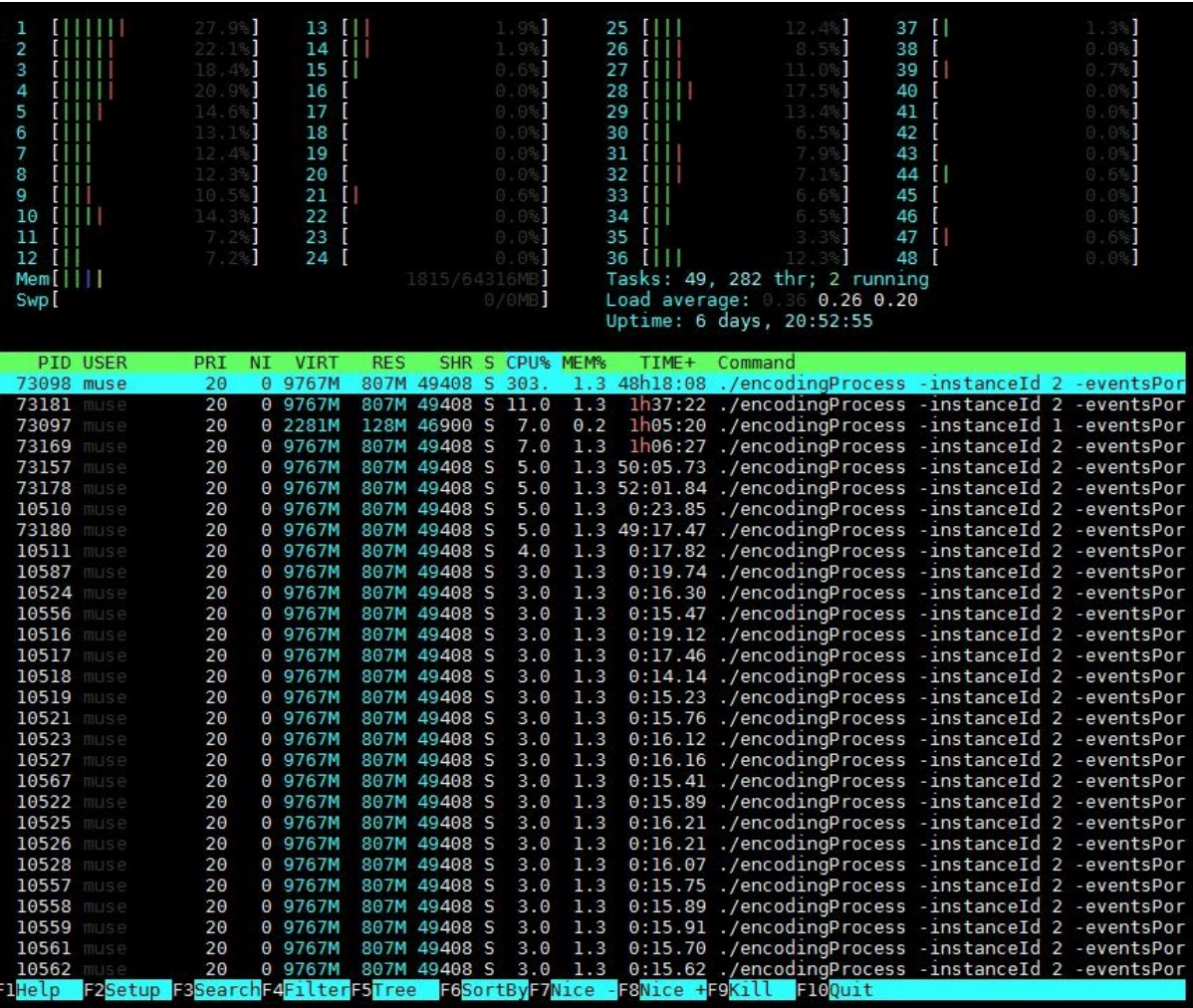# Using htop

Appliance based MFEL units (where we provided the hardware and software) have htop installed by default. Installing htop on non appliance units I have found to be quite problematic.

htop is NOT installed by default

We can run htop from a command window by entering:

```
htop
```


htop is a more graphical version of the Linux top command (which is available on all distros). htop is much better as displaying the resources of multi-processor systems.

The htop display is split in to two main areas. At the top of the page is the details about the processors and memory, in this example we can see 48 processors (they are hyper threading so its actually 24 cores from two processers (so 2 x 12 core CPUs).

Each core can show up to 100% utilisation, so a server running at full CPU load would show a total CPU usage of 4800%

The bottom window shows each process running (PID is process ID) and what resources each process is consuming.

htop Shortcuts

Description	Function Keys	Shortcut Keys
Help	F1	h

```
Setup                    F2                s
Search Process           F3                /
Invert Sort Order        F4                |
Tree                     F5                t
Sort By                  F6                >
Nice - (change priority) F7                [
Nice + (change priority) F8                ]
Kill a process           F9                k
Quit                     F10               q
```

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