

An aerial photograph of a landscape, possibly a forest or agricultural area, with a green overlay indicating a specific region. A red line or boundary runs diagonally across the image. A red rectangular box is superimposed over the center of the image, containing the text "Processing Speed Up" in white.

Processing Speed Up

Working to streamline
& fasten the processing of Pablo

Tesla 139.191.148.131 /data/canhemon

Working to streamline
& fasten the processing of Pablo

Tesla	139.191.148.131	/data/canhemon
HPC-MPI	hpc-gw1.jrc.it	/home/hpctest

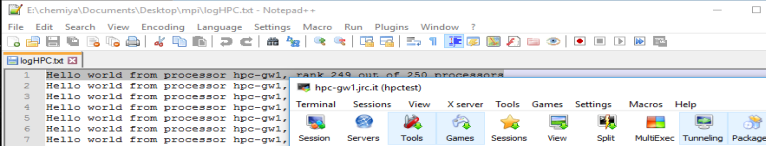
Working to streamline
& fasten the processing of Pablo

Tesla	139.191.148.131	/data/canhemon
HPC-MPI	hpc-gw1.jrc.it	/home/hpctest
HPC-EOS	?	?

An aerial photograph of a coastal region, possibly in Iceland, showing a winding road, fields, and a body of water. A semi-transparent grid is overlaid on the entire image. A solid orange horizontal bar is positioned across the middle, containing the word "Tesla" in white text.

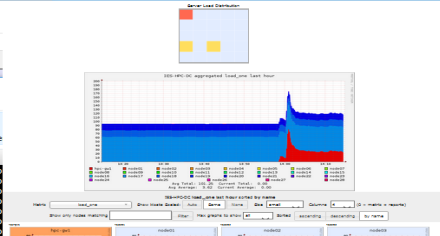
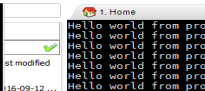
Tesla

- Fiji/ImageJ script streamlined
- GRASS script 15min/tile (Fixed)
- RG, NDVI, cLAI, cLAI2, CaB, CaB2 -> crown
- Subset size impact on crown identification (Done)



server: hpc-gw1

Queue	Memory	CPU	Time	Walltime	Node	Run	Que	Lm	State
h05	--	--	--	00:30:00	2	0	0	--	E R
low	--	--	--	12:00:00	10	0	0	--	E R
high	--	--	--	12:00:00	22	0	0	--	E R
test	--	--	--	00:30:00	2	0	0	--	E R
workq	--	--	--	00:30:00	2	0	0	--	E R
agri4cl	--	--	--	00:30:00	2	0	0	--	E R
acqua	--	--	--	00:30:00	2	0	0	--	E R



HPC-MPI

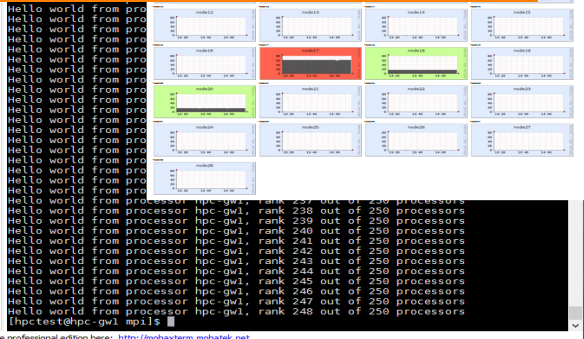
```
2439.hpc-gw1 hpctest test run.pbs -- 2 64 -- 00:10 R --
[hpcptest@hpc-gw1 mpirs]$ mail
Heirloom Mail version 12.5 7/5/10. Type ? for help.
"/var/spool/mail/hpctest": 1 message
> 1 root Wed Sep 14 10:53 17/608 "PBS JOB 2438.hpc-gw1"
& q
Held 1 message in /var/spool/mail/hpctest
[hpcptest@hpc-gw1 mpirs]$ qstat -a
```

server: hpc-gw1

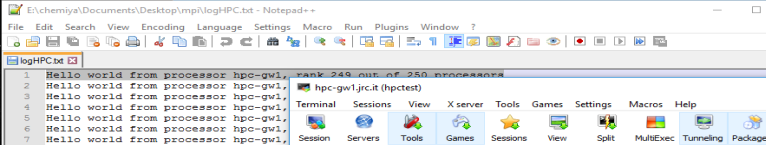
Queue	Memory	CPU	Time	Walltime	Node	Run	Que	Lm	State
h05	--	--	--	00:30:00	2	0	0	--	E R
low	--	--	--	12:00:00	10	0	0	--	E R
high	--	--	--	12:00:00	22	0	0	--	E R
test	--	--	--	00:30:00	2	0	0	--	E R
workq	--	--	--	00:30:00	2	0	0	--	E R
agri4climate	--	--	--	12:00:00	3	0	0	--	E R
acqua	--	--	--	120:00:0	4	0	0	--	E R

Job ID	Username	Queue	Jobname	SessID	NDS	TSK	Req'd Memory	Req'd Time	Elap S Time
2438.hpc-gw1	hpctest	test	run.pbs	--	2	64	--	00:29	R --

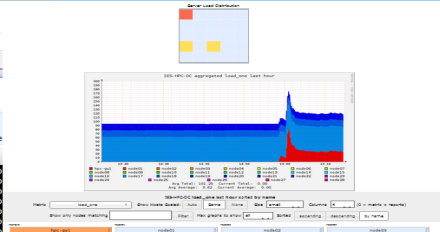
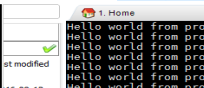
```
[hpctest@hpc-gw1 mpirs]$
```



- MPI + OpenMP hybrid
- distRS test OK
- PBS qsub issues (ticket filed Tuesday)
- still a test user (2 nodes, 64 cores, 30min)



Queue	Memory	CPU	Time	Walltime	Node	Run	Que	Lm	State
h05	--	--	--	00:30:00	2	0	0	--	E R
low	--	--	--	12:00:00	10	0	0	--	E R
high	--	--	--	12:00:00	22	0	0	--	E R
test	--	--	--	00:30:00	2	0	0	--	E R

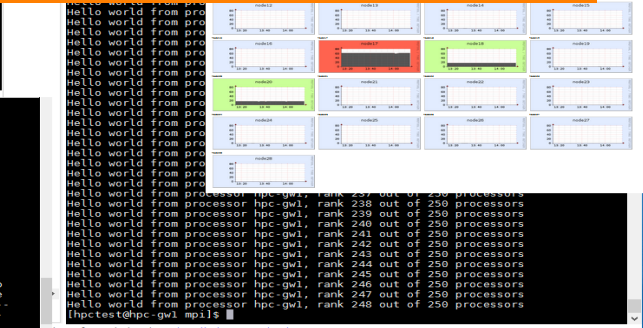


HPC-BigData

```
2439.hpc-gw1 hpc-test test run.pbs -- 2 64 -- 00:10 R --
[hpc-test@hpc-gw1 mpirs]$ mail
Heirloom Mail version 12.5 7/5/10. Type ? for help.
"/var/spool/mail/hpc-test": 1 message
> 1 root Wed Sep 14 10:53 17/608 "PBS JOB 2438.hpc-gw1"
& q
Held 1 message in /var/spool/mail/hpc-test
[hpc-test@hpc-gw1 mpirs]$ qstat -a
```

Queue	Memory	CPU	Time	Walltime	Node	Run	Que	Lm	State
h05	--	--	--	00:30:00	2	0	0	--	E R
low	--	--	--	12:00:00	10	0	0	--	E R
high	--	--	--	12:00:00	22	0	0	--	E R
test	--	--	--	00:30:00	2	0	0	--	E R
workq	--	--	--	--	--	0	0	--	E R
agri4climate	--	--	--	12:00:00	3	0	0	--	E R
acqua	--	--	--	120:00:0	3	0	0	--	E R

Job ID	Username	Queue	Jobname	SessID	NDS	TSK	Req'd	Req'd	Elap
2438.hpc-gw1	hpc-test	test	run.pbs	--	2	64	--	00:29	R --



- Docker container
- Debian Linux OS
- GRASS 7.3 Dev version (compile svn)
- Fiji/ImageJ install?

An aerial photograph of a coral reef system. The water is a deep, dark blue, and the coral reefs appear as lighter, textured patches of white and yellow. A solid blue rectangular box is positioned horizontally across the middle of the image, containing the text "Thank you" in white.

Thank you