Wire-Cell Workstation Cluster

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Computers

host	owner	GPU	CPU	OS	root	comment
hierocles	Brett	GTX 1060 6GB	40	Debian 12	yes	
heracles	Yousen	**RTX 4070 Ti 12GB**	32	Debian 12	yes	
aswork	Jay	GTX 1660 Ti 6GB	20	Debian 12	yes	
nitish	Nitish	**RTX 3080 10GB**	??	Ubuntu 18*	no	needs PS?
xqian	Xin	GTX 1050 Ti 4GB	12	Ubuntu 18	yes	No Deb12 now
apollo	Wenqiang	GTX 1050 Ti 4GB	8	Ubuntu 18	yes	
twister	Chao	GTX 1650 4GB	8	Ubuntu 18	no	SSD small
kratos	Haiwang	**RTX 2080 Ti 11GB**	8	Ubuntu 18	no	Deb12 ok now?
lycastus	Brett	-	8	Ubuntu 16*	yes	

* Okay to upgrade to Debian 12.

WCWC “client” criteria

- Run Debian 12 (stable).
- Static IP address.
- Provide me root access via SSH keys.
- Optional: owner agrees to share CPU/GPU with local WC team members.

WCWC client features/benefits

- A `/spack` directory with WCT, WCP and eventually art/LS software stacks.
  - NFS-served from `lycastus`, populated and maintained by me.
- Working nVidia kernel module, CUDA libraries, where appropriate/wanted.

WCWC CPU/GPU sharing protocol

For now, informal one-to-one agreement between user and system owner.

- “I want to use your GPU for XX days”.
- Consider if owner sits at the box or not (GPU OOM may kill X11).
- Open to ideas to best manage sharing.

WCWC client host configuration

- Host-local accounts and host-local home/data disk areas.
  - Perhaps accept NFS cross-mounting on case-by-case basis.
- NFS-mount `/spack` from `lycastus` read-only.
- Run `distcc` for accelerating software compiling on WCWC clients.

Near term work

`lycastus`	Install Debian 12, populate and NFS-serve `/spack`
`hierocles`	Use as an initial test “WCWC client” for Ansible.
`nitish`	Install Debian 12 and replace power-supply.
debians	Invite to join as “WCWC clients”.
ubuntus	Install Debian 12 when feasible and invite to join.