

Running Desktops at MASSIVE

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1. MASSIVE has a few options to run programs. You can use a Strudel Desktop, which will run as a virtual machine on your computer. Or you can use X11 forwarding. We suggest using the Desktop unless you are an expert. For a Desktop you can either use Strudel Web or install the Strudel client application.
<https://docs.massive.org.au/M3/connecting/connecting-via-strudel.html>
2. For UOW users, note that ITMS should be aware of the VNC software requirements and will install them on UOW managed computers.
3. Desktops can be Large or Standard. To run any GPU or large CPU jobs directly from software you need a Large Desktop. Otherwise, you can use Standard Desktop and use scripts to submit jobs to the cluster.
4. Script submission will always be a more efficient use of resources, but some jobs are benefitted by the direct feedback afforded by a Large Desktop. For example, particle picking. The trade-off is 'now' versus 'fast'. You can request more resources with submission (i.e. fast) but might have to wait (i.e. job might not run now)
5. A set of scripts are available from the facility for script submission. Please contact us for access.

Standard Desktop

- Number of cores per desktop session: 3
- Processor model: 2 x Intel Xeon CPU E5-2680 v3
- Processor frequency: 2.50 GHz, with max Turbo frequency 3.30 GHz
- GPU model: nVidia Grid K1
- Number of GPU per desktop session: 1
- GPU cores : 192 CUDA cores
- Memory per desktop session: 16 GB RAM
- Partition name: m3f

Large Desktop

- Number of cores per desktop session: 12
- Processor model: 1 x Intel Xeon CPU E5-2680 v3
- Processor frequency: 2.50GHz, with max Turbo frequency 3.30GHz
- GPU model: nVidia Tesla K80
- Number of GPUs per desktop session: 2
- GPU cores per card: 4,992 CUDA cores
- Total GPU cores per desktop session: 9984 CUDA cores
- Memory per desktop session: 128 GB RAM
- Partition name: m3c