# PoC R2 – the small print

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vl·e

# Outline

- VL-e software stack
- Support and Certification
- Running on the Grid
- Modules demo

# The Software Stack

VL-e PoC distribution

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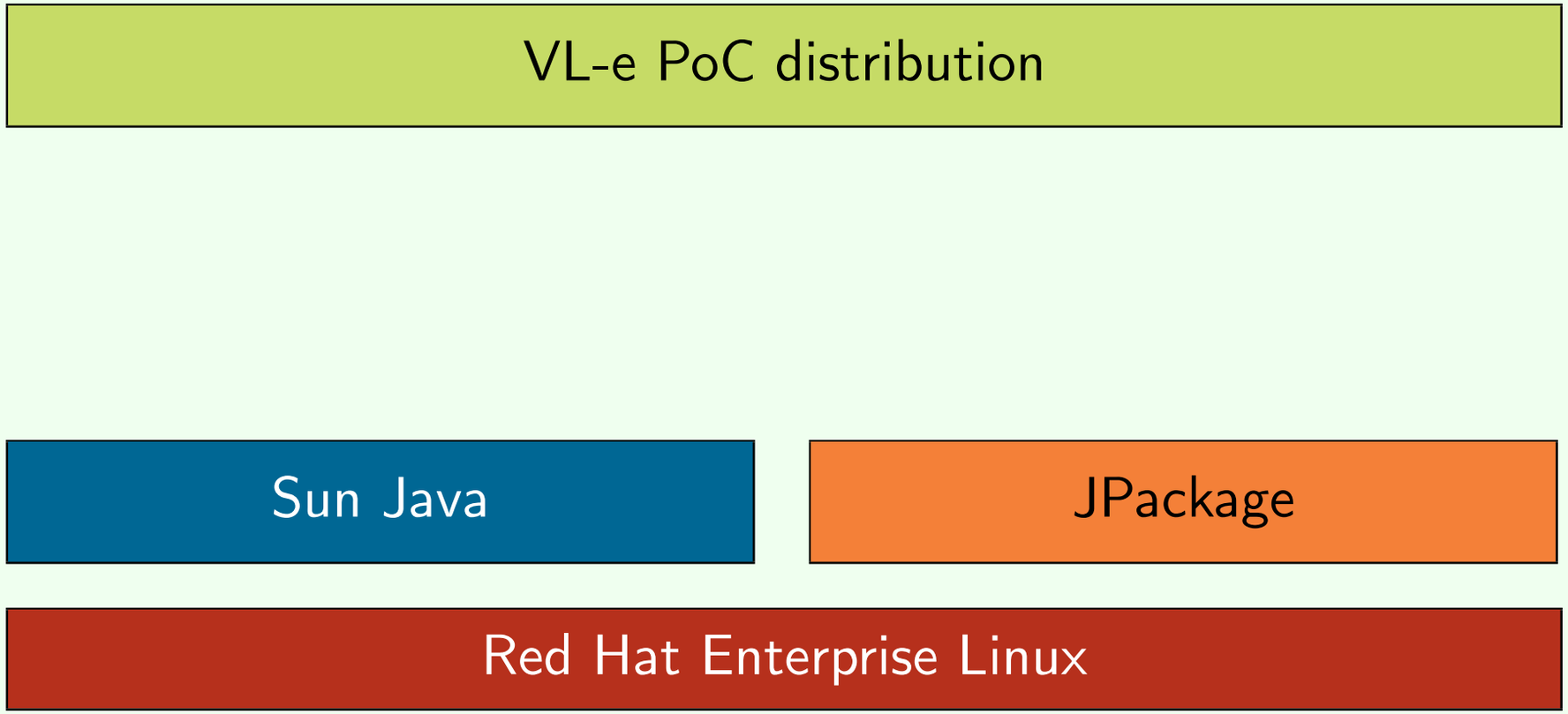
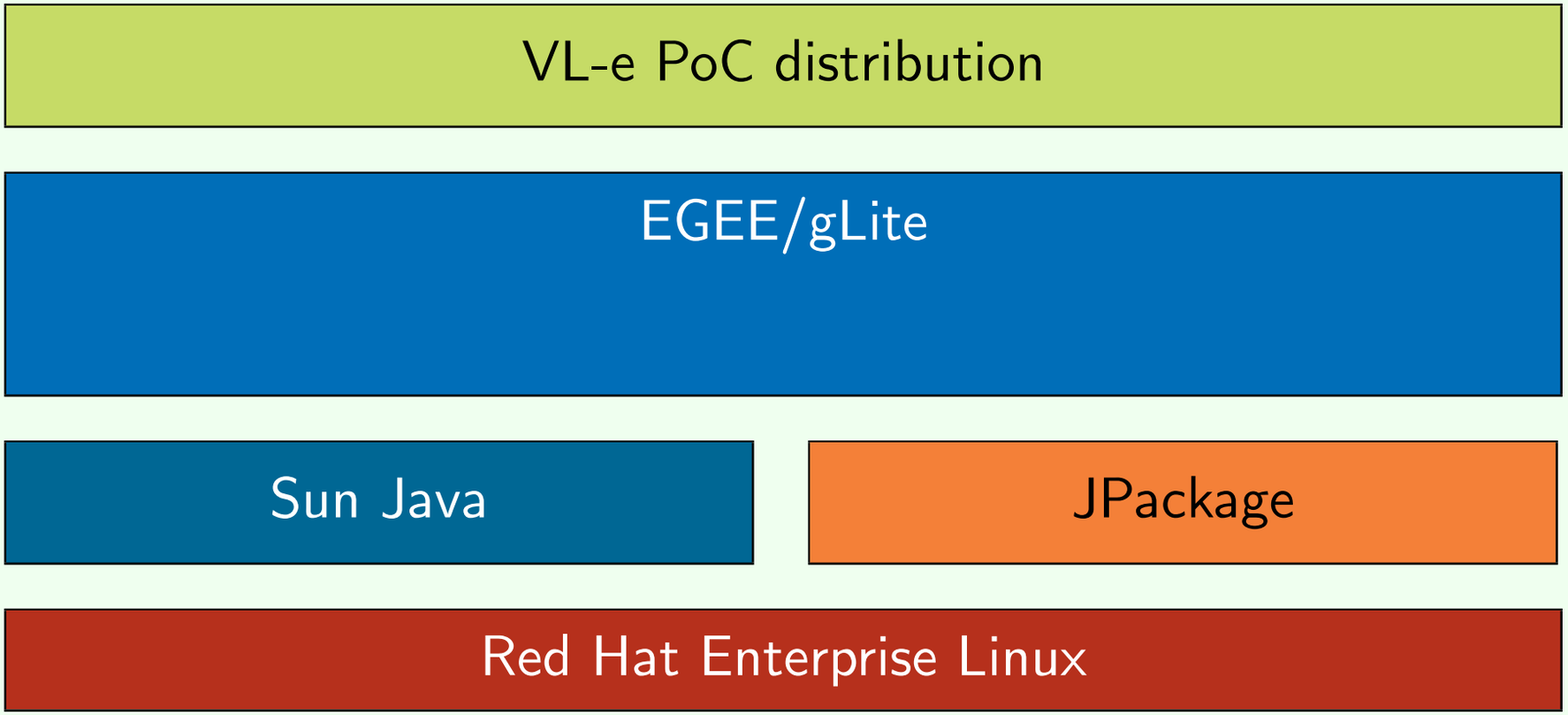
VL-e PoC distribution

Red Hat Enterprise Linux

# The Software Stack



# The Software Stack



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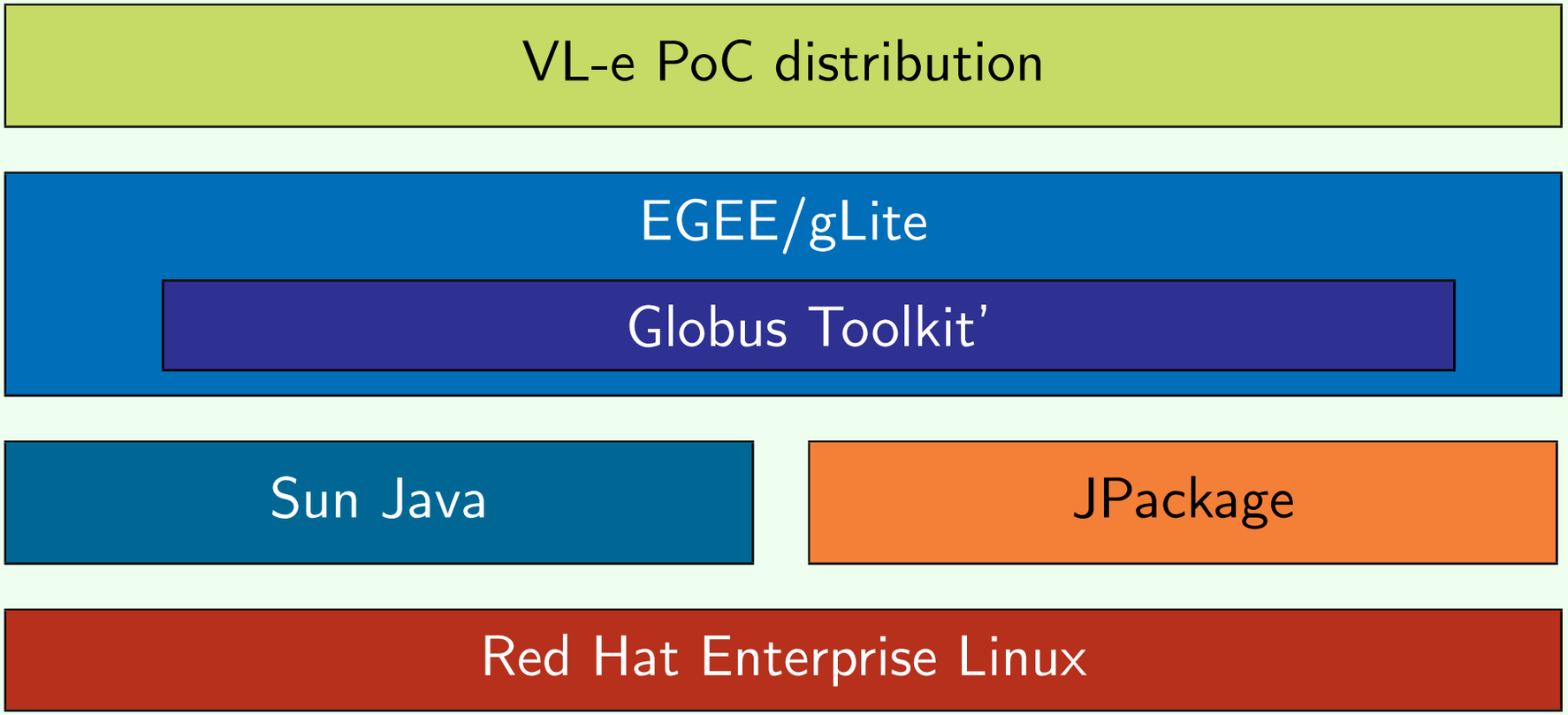

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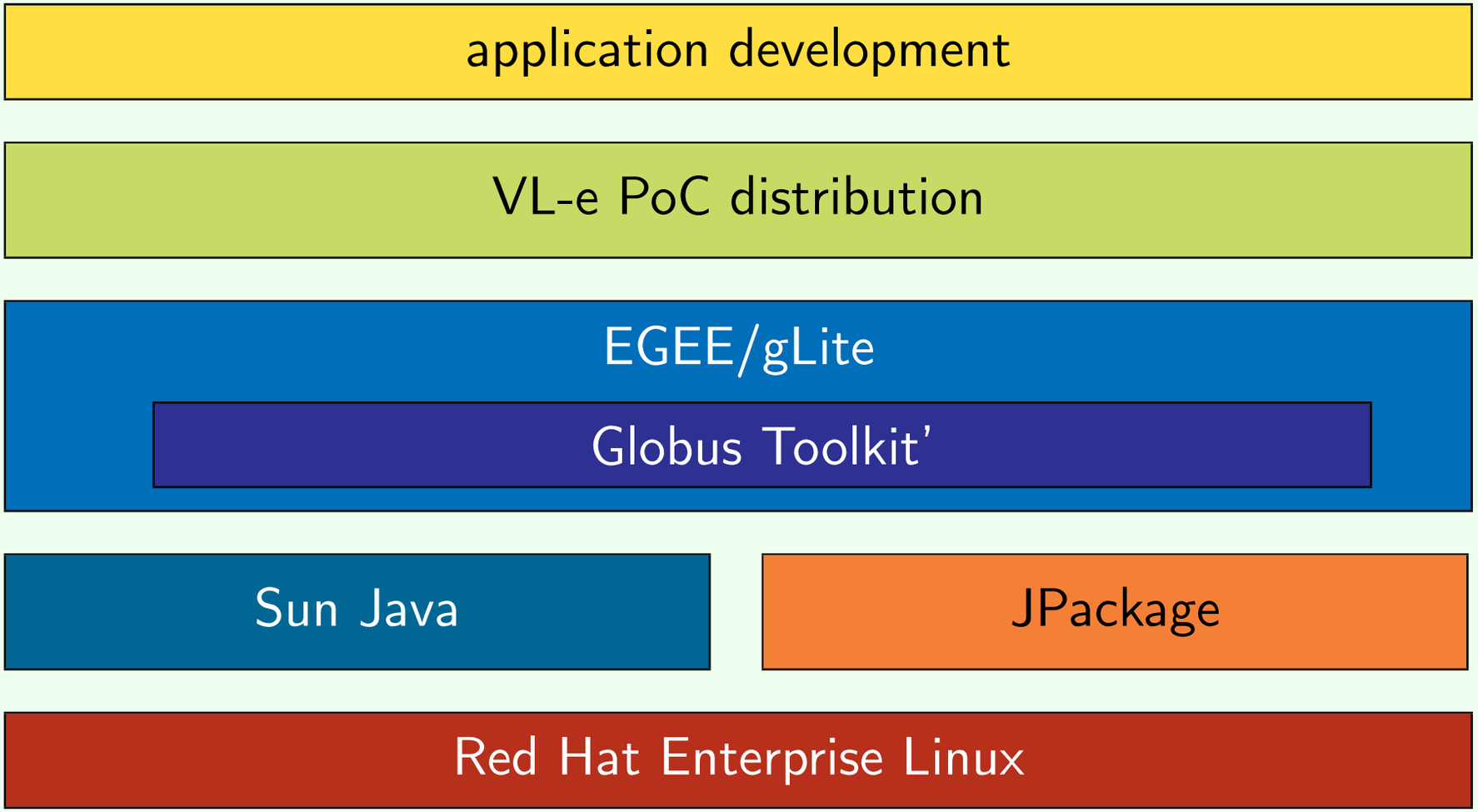


# Observations

- not everything is provided by VL-e
  - external packages
  - EGEE middleware installer (YAIM)
  - Only 10% of the PoC (green layer) is VL-e middleware
- EGEE middleware is in a state of flux
  - transition to gLite WMS/CE
  - support for RHEL4
- it's difficult to get attention for non-HEP needs

# PoC support structure

- There is support for everything in the PoC through VLe-IT.
- The same software stack is found on
  - infrastructure (grid resources)
  - certification testbed
  - Virtual Machines
- Debugging can be tough; but at least the testbed is available for testing under our supervision.

# Certification

- The certification procedure is dysfunctional.
- But the `contrib/` track is showing some promise
  - VLeT (VBrowser)
  - DeVIDE
- Don't wait for the next release, `contrib/ute` now!

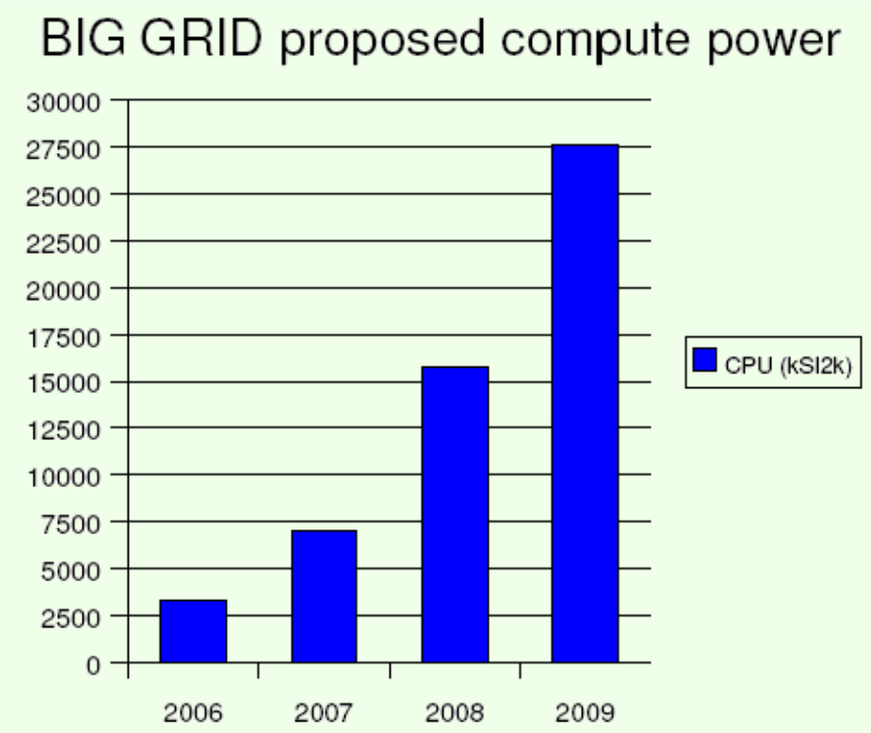
# Running on the Grid

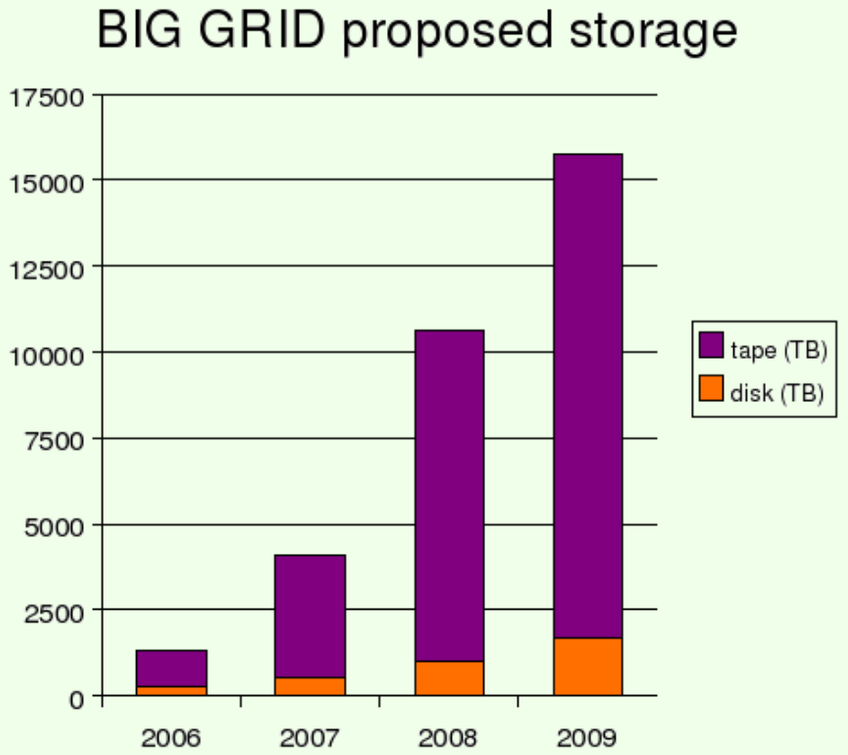
- Mind the ‘paratrooper’ paradigm
- Use modules to load the relevant environment
- **Warning:** Use `bash -l` in job wrapper script
- We’ll provide example job scripts
- Maximum input sandbox ($\approx$ 15 MB)
  - Put large stuff in the VO software area
  - Use a storage element for large code/data

# Modules DEMO

```
$ module avail

--------------------------- /opt/vl-e/Modules/versions --------------------------
3.2.3

---------------------- /opt/vl-e/Modules/3.2.3/modulefiles ----------------------
dot         module-cvs  module-info modules     null        use.own

--------------------------- /etc/opt/vl-e/modulefiles ---------------------------
fsl/3.3.7           lam/7.1.2           rmpi/0.5
gat/1.8.2           mesa3d/6.4.2        sesame-client/1.2.6
graphviz/2.12       mpitb/2.1.73        srb/3.4.2
gt/2                mricro/1.39.3       taverna/1.4
gt/4.0.4            nimrod/3.2          vle/1
ibis/1.4            nimrodo/2.8         vle/2
itk/2.8.1           octave/2.1.73       vlet/0.6
java/1.4            ogsadai-wsrf/2.2    vtk/4.4.2
java/1.5            paraview/2.4.4      vtk/5.0.2
javagat/1.6         pl/5.6.27           weka/3.4.9
kepler/1.0.0beta2   r/2.4.0
```

# BIG GRID scaling up




*The large print giveth, and the small print taketh away.*—Tom Waits