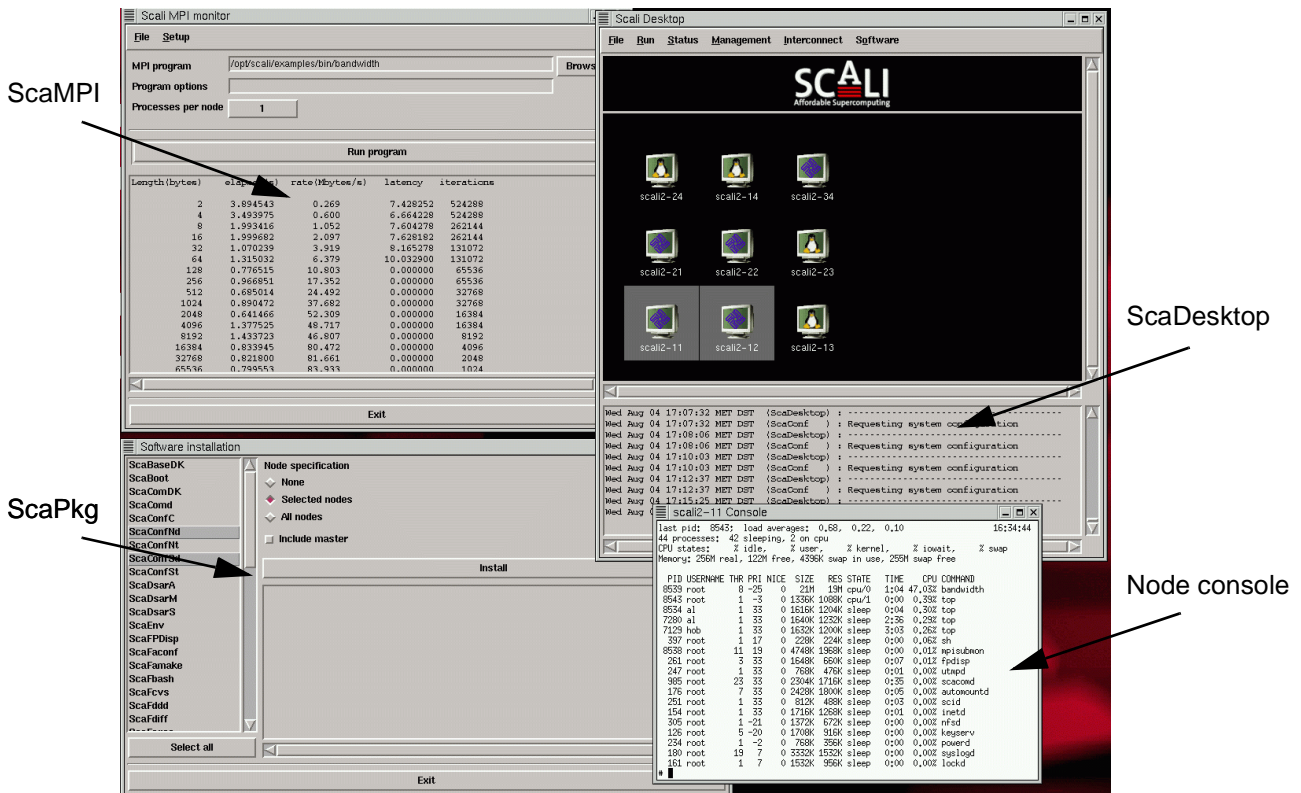


# Scali Software Platform - SSP

Scali delivers an extensive number of tools and applications for clusters ranging from a handful to hundreds of nodes. They target all aspects of building, maintaining and using a cluster and ranges from low level drivers to high level administration tools. The SSP be divided into three domains of usage:

- **Installation**
    - ✓ Operating System installation (ScaOSInstall)
    - ✓ SSP installation (SSPinstall)
  - **Administration/Maintenance**
    - ✓ Parallel software installation tool (ScaPkg)
    - ✓ Configuration/management of high speed interconnect (ScaConf)
    - ✓ Power switching individually on each node\* (ScaConf)
    - ✓ Console management\* (ScaConf)
    - ✓ Running OS commands in parallel on cluster (ScaSH)
  - **Operational use**
    - ✓ Running MPI applications (ScaMPI)
    - ✓ Running OS commands in parallel on cluster (ScaSH)
- (\* = requires HW support)

Most of the tools are available as plug-ins in a graphical desktop (ScaDesktop) which make the cluster accessible and manageable through a consistent interface across all tools and platforms.



## Product descriptions

- ScaDesktop** The graphical desktop interface which unifies access to several Scali tools and applications. It is modular by design and make use of plug-ins to extend it's functionality.
- ScaOSInstall** Scali Operating System (OS) installation tool. Simplifies OS installation on a cluster by creating and configuring an installserver on one node and subsequently use this node to install the OS in parallel on all the remaining nodes in the cluster. A ScaDesktop plug-in and standalone application is supplied.
- SSP install** Performs the installation of the SSP onto all nodes in a cluster. It assists you through the installation step by step until you have a fully operational cluster.
- ScaMPI** The MPI 1.1 library with tools for application loading. It is highly optimized, fault tolerant and supports multithreading. A number of benchmark and test applications are bundled together with an adoption of the mpich "upshot" MPI call event tracer. A ScaDesktop plug-in and standalone application loader is supplied.
- ScaConf** Interactive tool for cluster management:  
- Power switching (turning power to nodes on/off)  
- Console access (view console of every node)  
- Interconnect routing algorithms including the "Scali routing" allowing us to maintain full connectivity with unavailable nodes.  
A ScaDesktop plug-in is supplied.
- ScaSH** Tools for executing commands in parallel on selected/all nodes in a cluster (e.g. '# scash -p ls /tmp' will list the contents of /tmp on all nodes prefixed with the respective node name). A ScaDesktop plug-in is supplied.
- ScaPkg** A tool for installing software on selected/all nodes in a cluster. Package files are kept in a repository on the installation server, distributed and installed with automatic configuration onto the nodes. A ScaDesktop plug-in is supplied.
- ScaBoot** An x86 boot loader enabling OS boot selection using the serial port (console) and/or keyboard. Includes tools for selecting which OS to boot next.

## Platforms supported

OS	Version	Architecture
Linux	RH 6.0	i86pc
Solaris	2.6 or 7	i86pc / UltraSPARC

## Availability

Now.