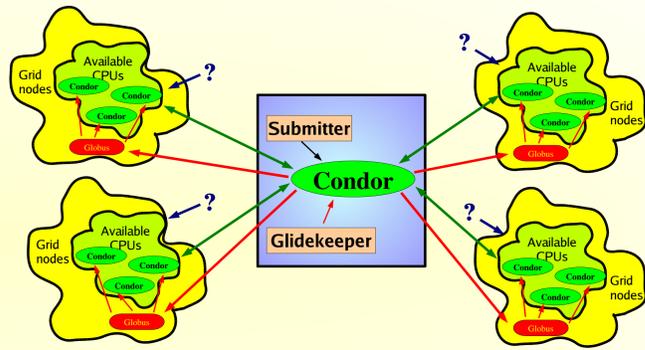
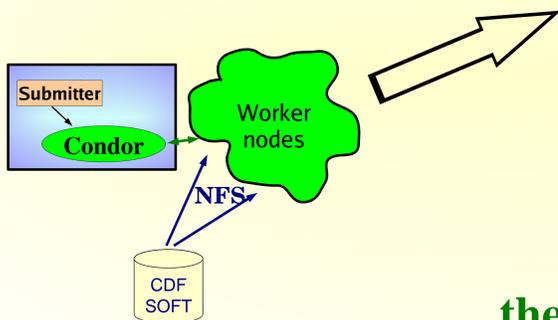


Transparently Distributing CDF Software with Parrot

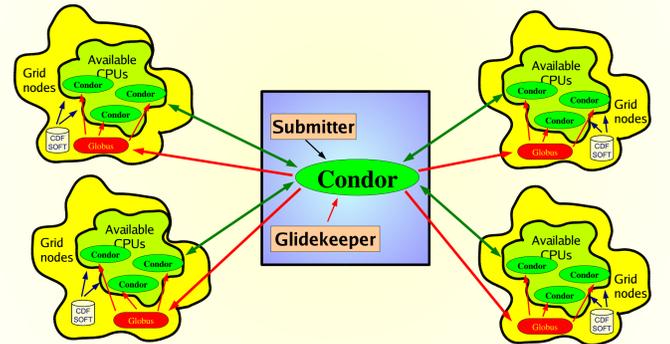
C. Moretti, I.Sfiligoi, D. Thain

CDF moving from dedicated resources to the Grid



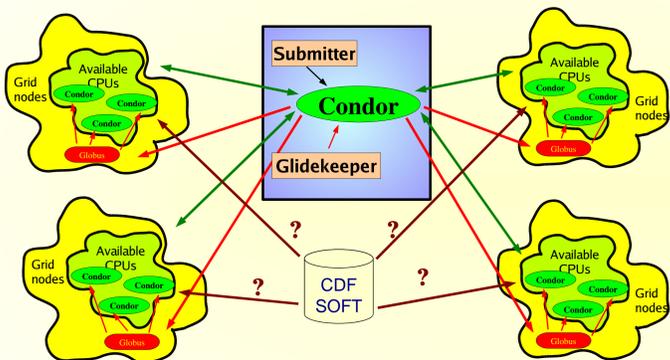
How do we access the software distribution?

Installing a copy at each and every site not very compelling



A maintenance nightmare!

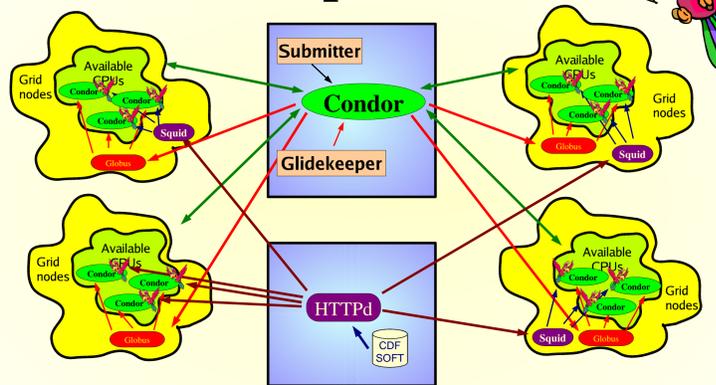
What we want is a central repository with seamless access to the software distribution



Logically like NFS, but over WAN

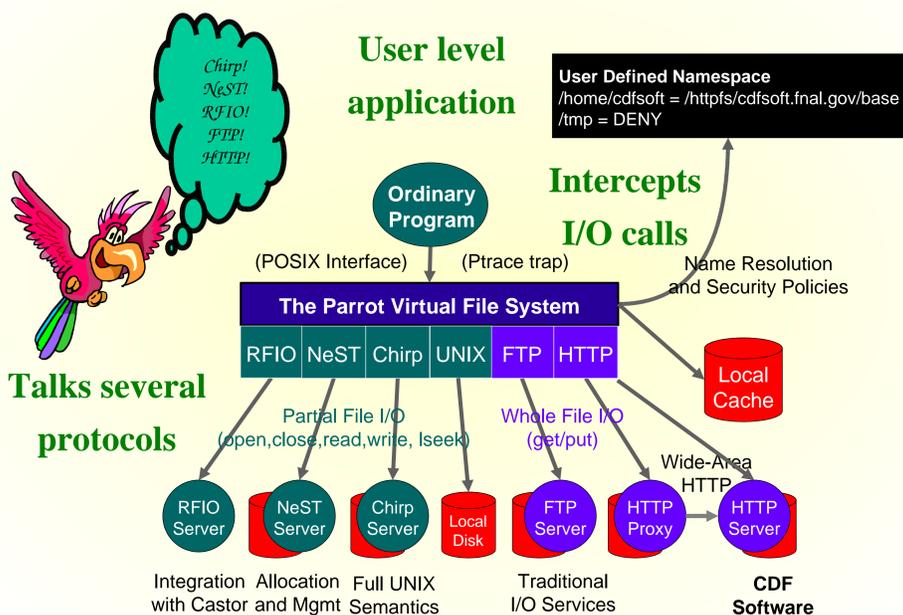
AFS would be ideal, but not all sites implement it
Cannot be installed by the user

Using Parrot over HTTP solves our problems

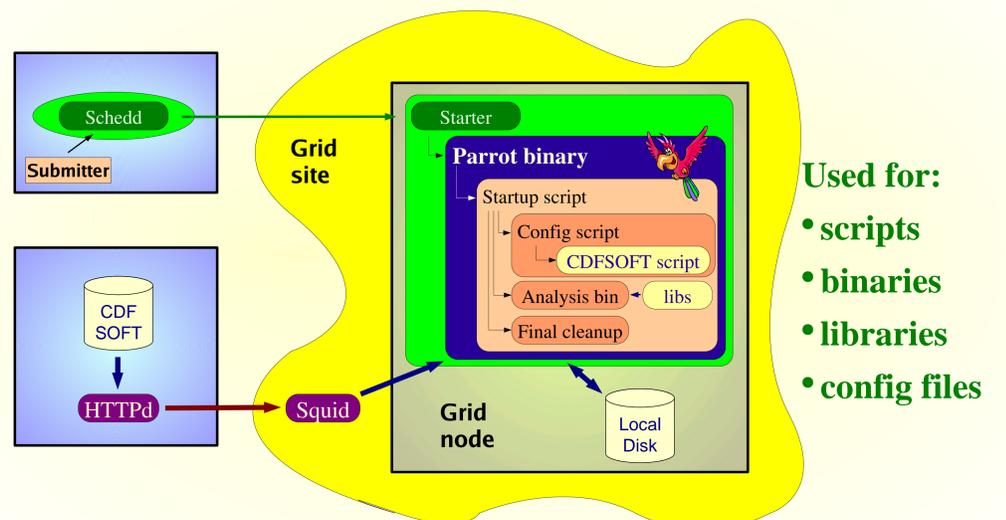


No system installation needed at Grid sites

What is Parrot?



How does it work for CDF?



From the user point of view, like local disk

A small price to pay

No suid executables

OS will deny it!

Not a problem for CDF

Benchmarks

No degradation for local I/O

- Up to 8MB/s tested

~5% slowdown for real jobs

- Remote FS in PATH

See also:

Parrot

<http://www.cse.nd.edu/~ccl/software/parrot/>

CDF

Talk: OSG-CAF - A single point of submission for CDF to the Open Science Grid

Poster: LcgCAF - The CDF portal to the gLite middleware