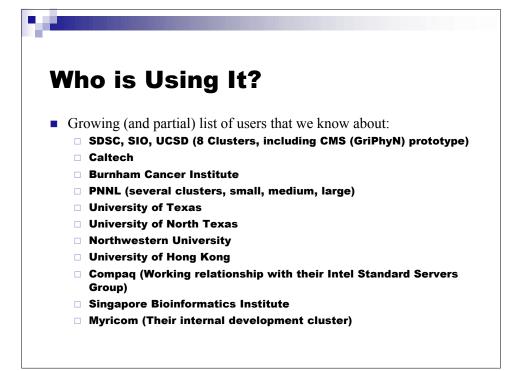
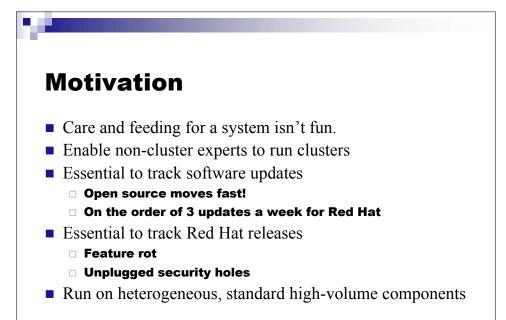
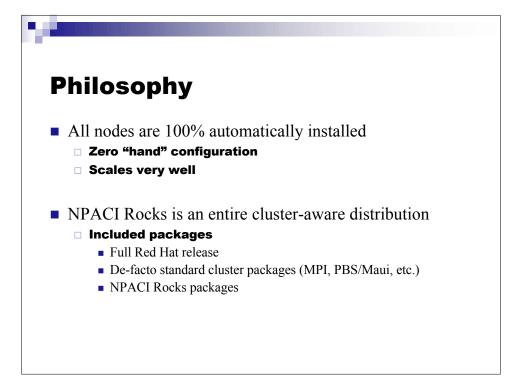


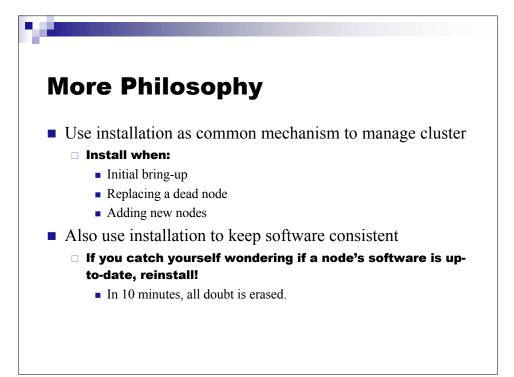
What sets us apart

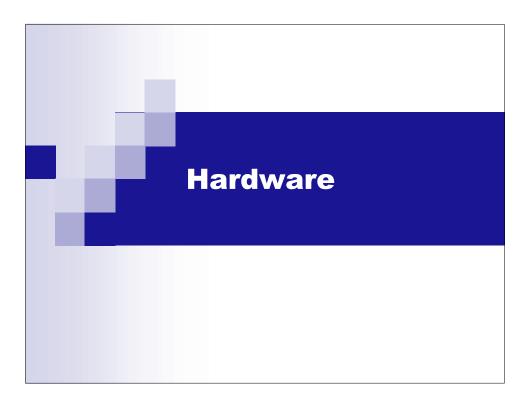
- Fully automated cluster deployment
 - 1. Get and burn ISO CD image from Rocks.npaci.edu
 - 2. Fill-out form to build initial kickstart file for your first front-end machine
 - 3. Kickstart "naked" frontend with CD and kickstart file
 - 4. Reboot frontend machine
 - 5. Integrate compute nodes with "Insert Ethers"
 - 6. Ready to go!
- Complete out of the box solution with rational default settings

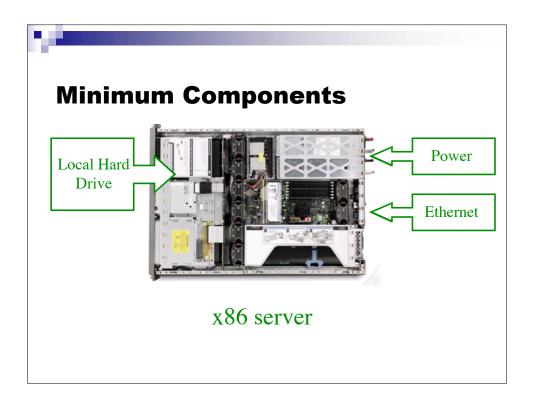


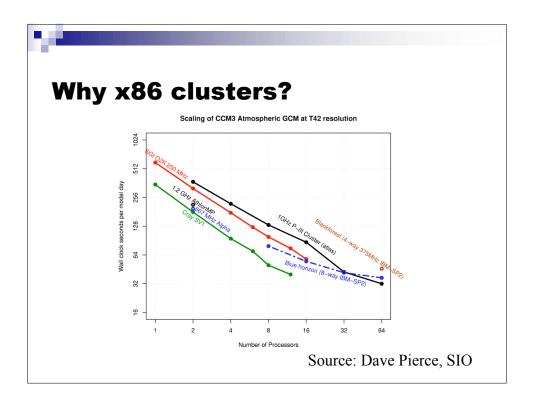


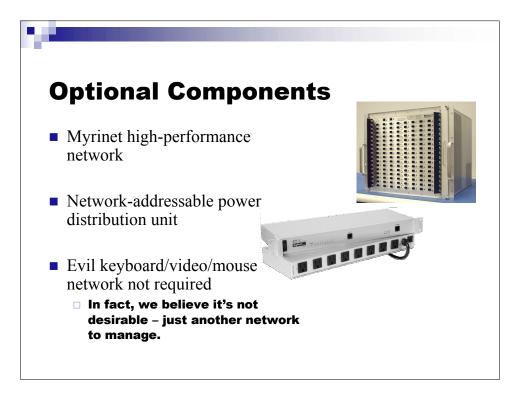


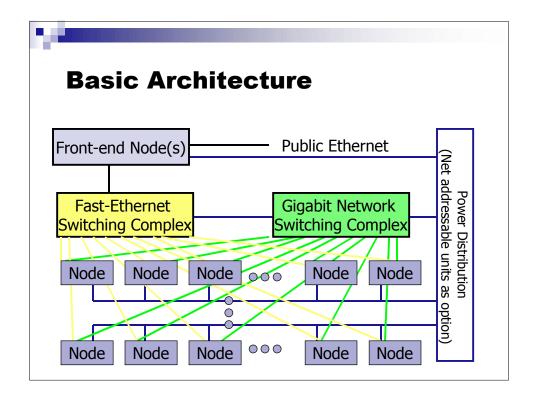


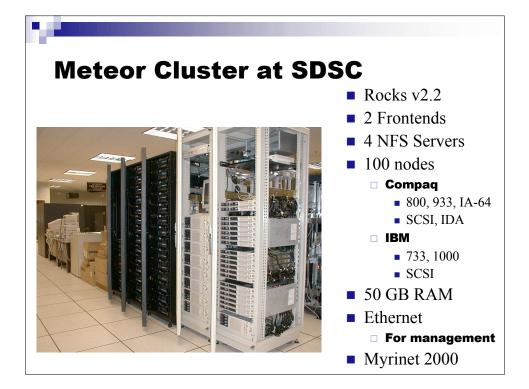




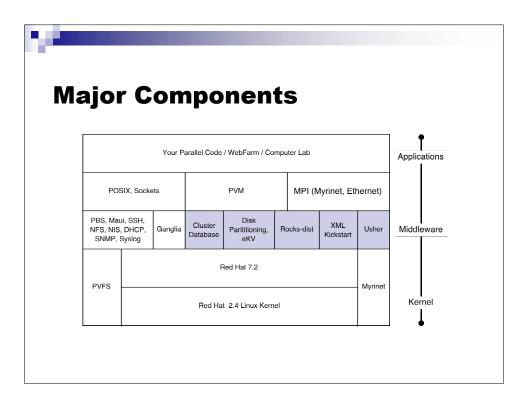


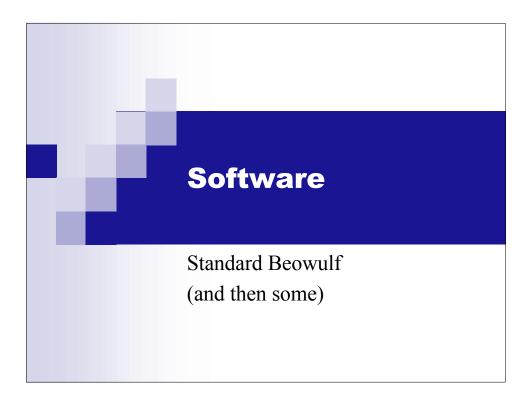


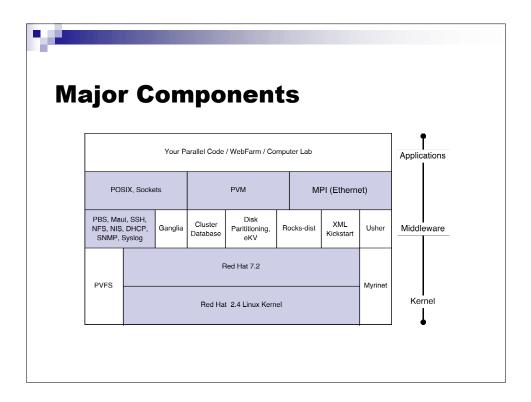


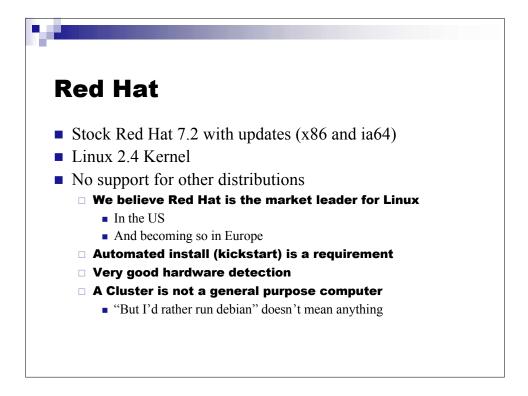


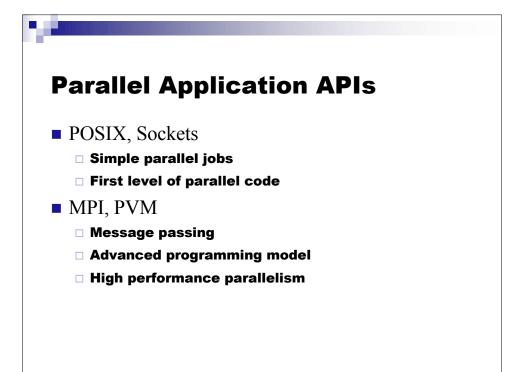


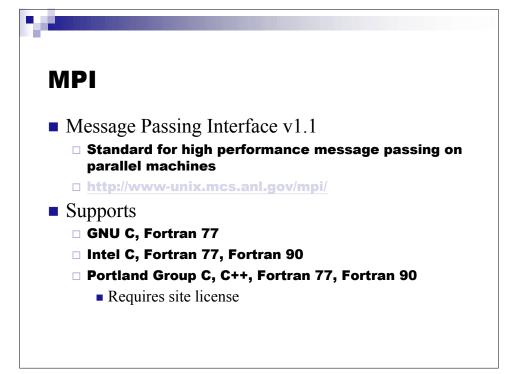


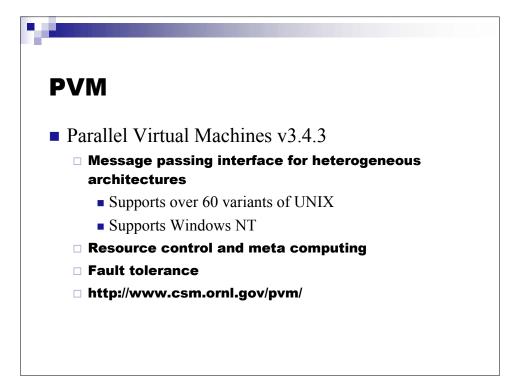


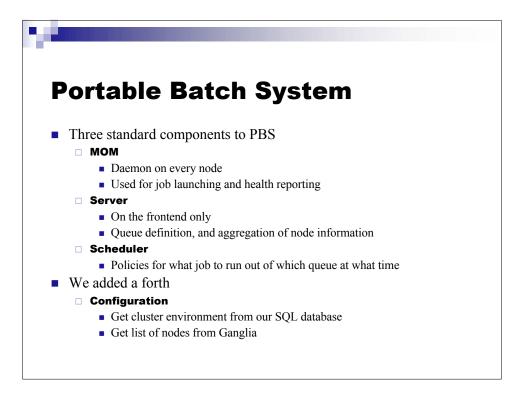


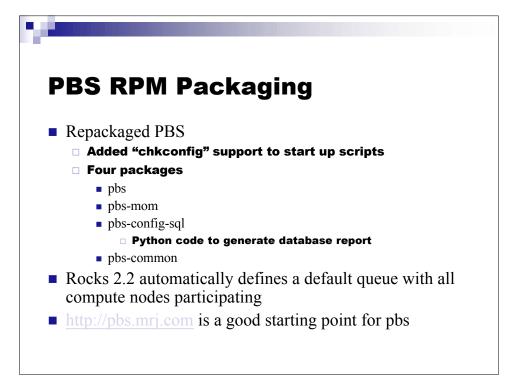


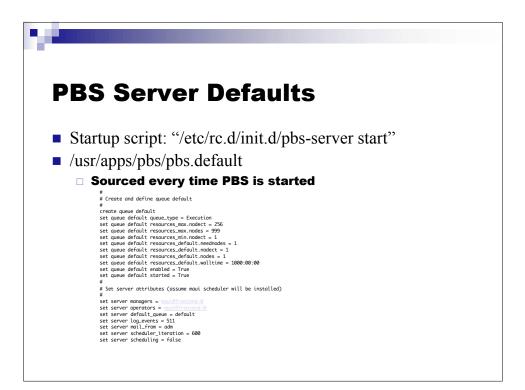


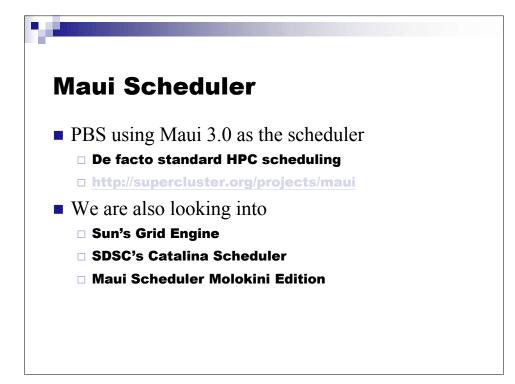


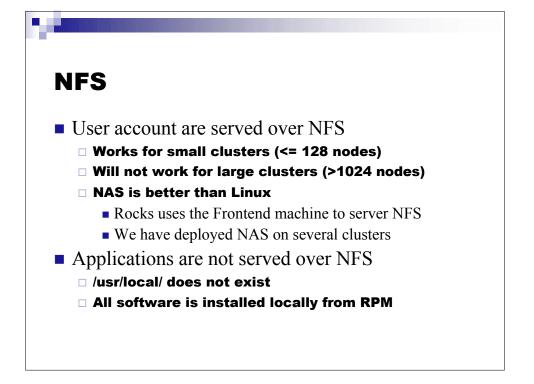




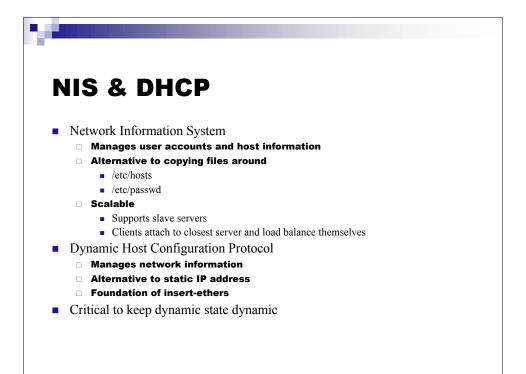


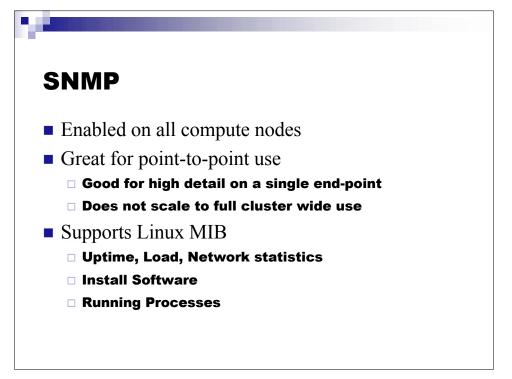




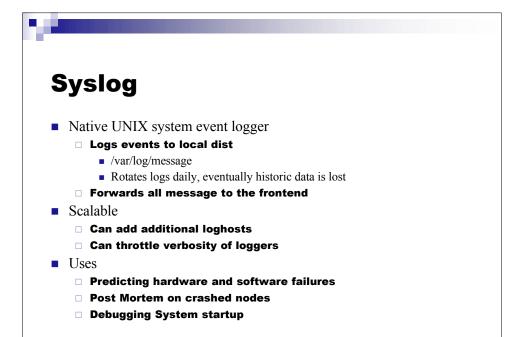


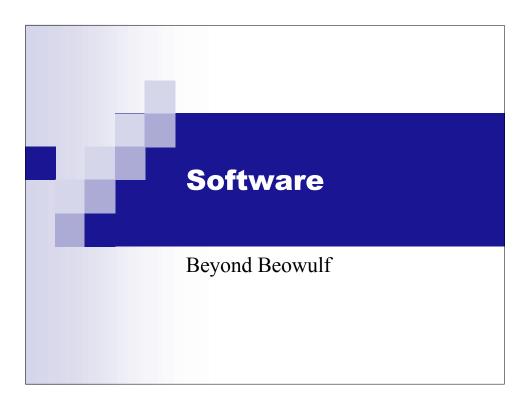


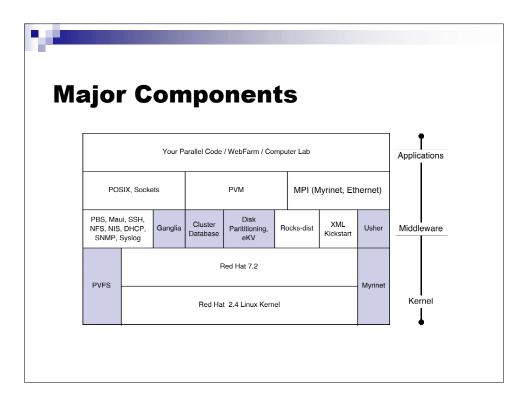


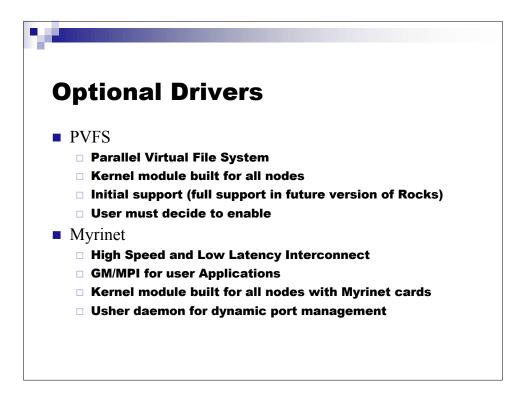


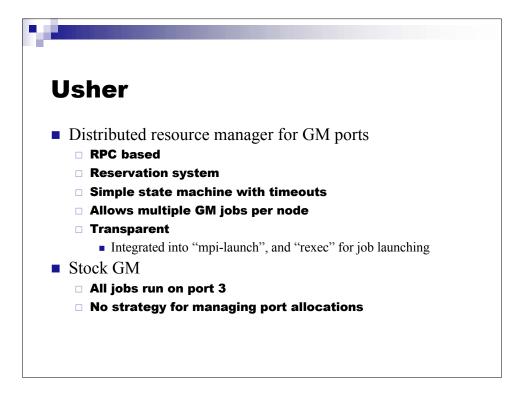
snm	p-stat	us		
PI 1 2 3 4 5 6 7 8 9 9 18 13 57 11 12 12 11 12 12	424 0 3 4 17212 0 1 5 0 1695 7 0	npute-0 MEM 264 0 0 0 0 0 0 0 0 0 0 0 0 0	PROCESS init keventd ksoftirqd_CPU0 ksottirqd_CPU1 kswapd kreclaimd bdflush kupdated mdrecoveryd kjournald kjournald httpd pvfsd dhcpcd pvfsd dhcpcd syslogd klogd	

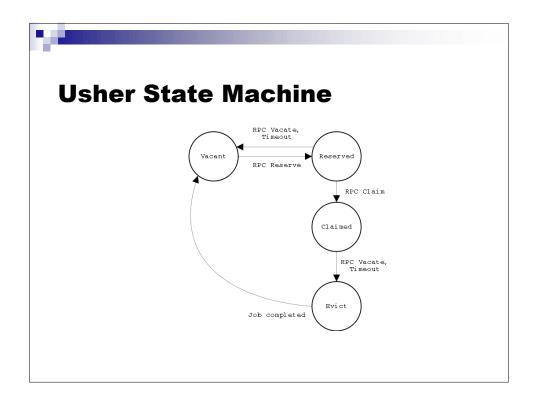


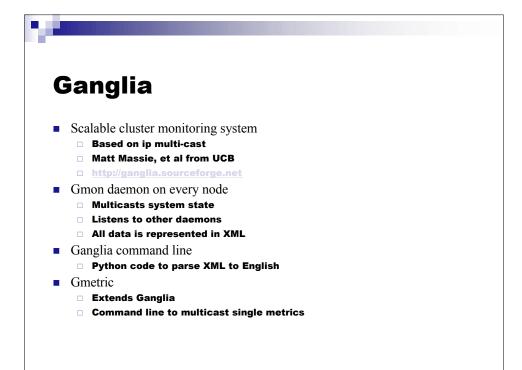


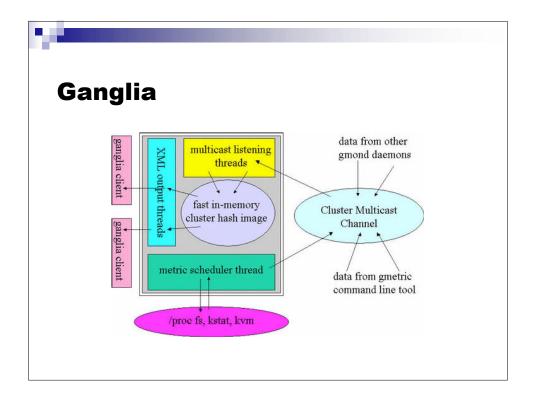


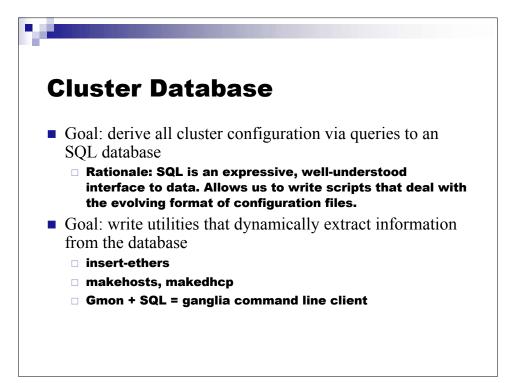


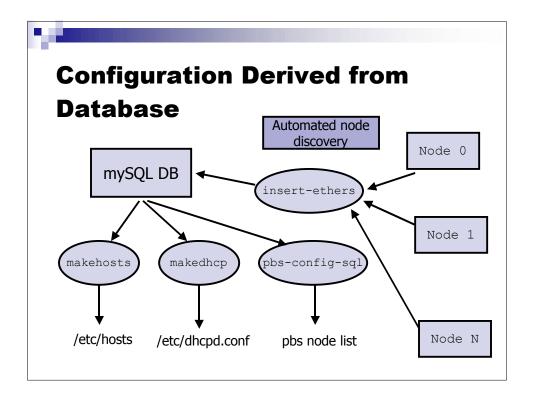




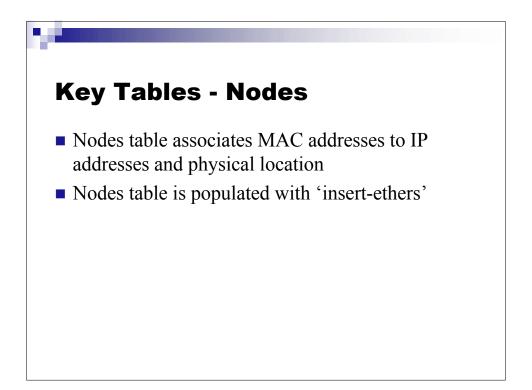








	Key Tab	oles -	Node	S			
ID	MAC	Name	Membership	Hardware	Rack	Rank	IP
1		frontend-0	1	0	0	0	10.1.1.1
2	00:30:c1:d8:59:00	network-1-0	6	0	1	0	10.255.255.254
з	00:01:e7:1a:be:00	network-0-0	6	0	0	0	10.255.255.253
4	00:30:c1:d8:ac:80	network-3-0	6	0	3	0	10.255.255.252
5	00:50:8b:a5:4d:b1	nfs-0-0	12	0	0	0	10.255.255.251
6	00:50:8b:c5:c3:72	nfs-0-1	12	0	0	1	10.255.255.250
7	00:50:8b:a5:57:ff	nfs-1-0	12	0	1	0	10.255.255.249
8	00:50:8b:a5:4c:f4	nfs-1-1	12	0	1	1	10.255.255.248
9	00:50:8b:e0:3a:a7	compute-0-0	2	0	0	0	10.255.255.247
10	00:50:8b:e0:44:5e	compute-0-1	2	0	0	1	10.255.255.246
11	00:50:8b:e0:40:95	compute-0-2	2	0	0	2	10.255.255.245
12	00:50:8b:e0:40:93	compute-0-3	2	0	0	3	10.255.255.244
13	00:50:8b:e0:42:df	compute-0-4	2	0	0	4	10.255.255.243



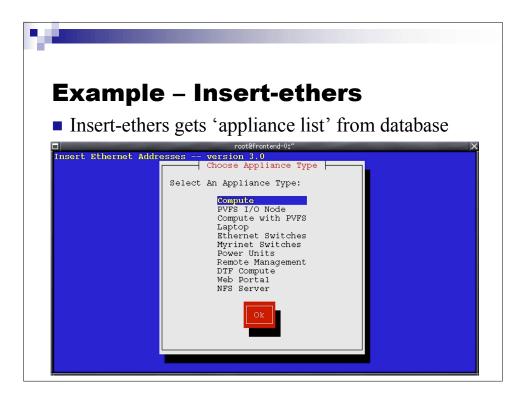
	ID.	Name	Appliance	Distribution	Compute
	1	Frontend	1		no
	2	Compute	2	1	,
	-	PVFS I/O Node	3	1	no
		Compute with PVFS	4	1	·
		Laptop	5	1	no
	6	Ethernet Switches	6		no
	7	,	6		no
	8	Power Units	7		no
	9	Remote Management	8		no
	10	DTF Compute	9	1	yes
	11	Web Portal	10	1	no
	12	NFS Server	11	1	no
nes	"?	appliance" ty	ypes		

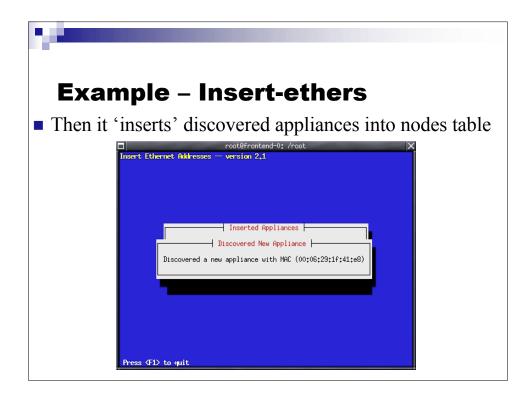
уі	а	pies	- Apj	pila	nces	
	ID	Name	ShortName	Graph	Node	
	1	frontend	f	default	frontend	
	2	compute	с	default	compute	
	з	pvfs	pv	default	pvfs-io	
	4	comp-pvfs	ср	default	compute-pvfs	
	5	laptop		default	laptop	
	6	network	n			
	7	power	Р			
	8	manager				
	9	dtf	d	default	dtf-compute	
	10	portal	pl	default	portal	
	11	nfs	n	default	nfs	

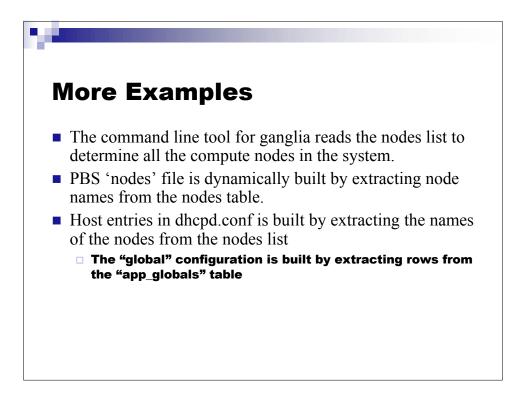
	ney	ay	es – App	_Giobal5
ID	Membership	Service	Component	Value
1	0	Kickstart	PublicNTPHost	ntp.ucsd.edu
2	0	Kickstart	ZeroMBR	yes
3	0	Kickstart	PrivateKickstartCGI	kickstart.cgi
4	0	Kickstart	PublicNetmask	255.255.255.0
5	0	Kickstart	PublicNetwork	192.31.21.0
6	0	Kickstart	PrivateNISMaster	frontend-0
7	0	Kickstart	PrivateHostname	frontend-O
8	0	Kickstart	PrivateIPForwarding	yes
9	0	Kickstart	Private Gateway	10.1.1.1
10	0	Kickstart	PublicKickstartBasedir	install
11	0	Kickstart	Lang	en_US

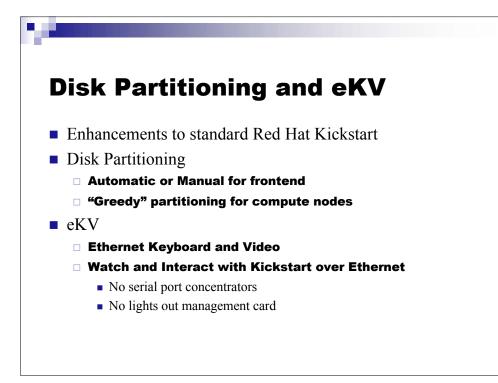
	Table	Rela	tions	shir)S					
ID.	MAC	Name	Membership	Hardware	e Rack	Rank		IP	C	
1		frontend-0	1	0	0	0	10.1.1	1.1		
2	00:30:c1:d8:59:00	network-1-0	6	0	1	0	10.25	5.255.254		
З	00:01:e7:1a:be:00	network-0-0	6	0	0	0	10.25	5.255.253		
4	00:30:c1:d8:ac:80	network-3-0	. . 6.		_	Name		A	Production at the	0
5	00:50:8b:a5:4d:b1	nfs-0-0	12	ID	rontend			Appliance	Distribution	no
6	00:50:8b:c5:c3:72	nfs-0-1	12		Compute			2	1	ves
7	00:50:8b:a5:57:ff	nfs-1-0	12		PVFS V			3	1	no
8	00:50:8b:a5:4c:f4	nfs-1-1	.42		Compute		VFS	4	1	ves
9	00:50:8b:e0:3a:a7	compute-0-0	2	- -	_aptop			5	1	no
10	00:50:8b:e0:44:5e	compute-0-1	2	6	Ethernet	t Switch	nes	6		no
11	00:50:8b:e0:40:95	compute-0-2	2	7	Myrinet :	Switch	es	6		no
12	00:50:8b:e0:40:93	compute-0-3	2	8 1	^o ower U	nits		7		no
13	00:50:8b:e0:42:df	compute-0-4	2	9 1	Remote	Manag	ement	8		no
NT	. I., T.I.I.				OTF Cor			9	1	yes
INC	odes Table				Neb Poi			10	1	no
				12	NFS Ser	ver		11	1	no
				Men	here	hing	Tal	h		
				IVICII	10013	mp	5 I al			

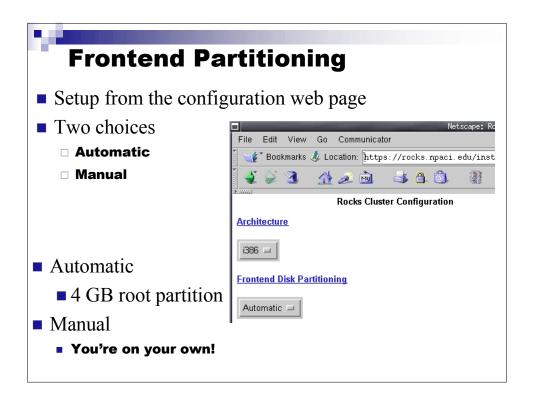
	Table F	Dalat	ion	chi	ine			
		L EIAL		511	iha			
ID	Name	Appliance Dist	ribution C	ompute				
1	Frontend	و د لا می	1 r	10				
2	Compute	2 💻	1 y	res				
З	PVFS I/O Node	****	r		Name	ShortName	Graph	Node
4	Compute with PVFS	4	у	res				frontend
5	Laptop	5	r		frontend	f		
6	Ethernet Switches	6		. 2	• • • • • • • • • • • • • • • • • • •	с	default	compute
7	Myrinet Switches	6.	г	10 3	pots	pν	default	
8	Power Units	7		10 4	comp-pvfs	ср	default	compute-pvfs
9	Remote Management	1.8.1		10 5	laptop		default	laptop
10	DTF Compute	9			network	n		
11	Web Portal	10		7	power	Р		
12	NFS Server	11	1 r	10 8	manager			
М	emberships Ta	able		9	dtf	d	default	dtf-compute
1 1 1	cinocisinps 1			10	portal	pl	default	
				11		р. П	default	•
				Ap	pliances	Table		
				-	•			

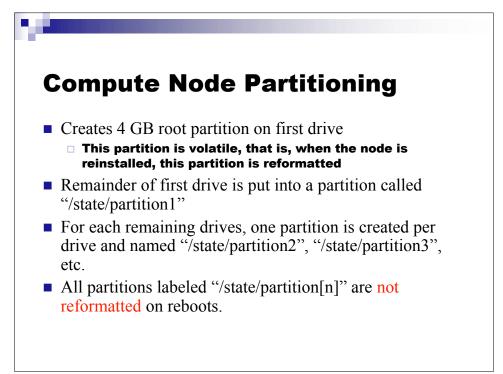


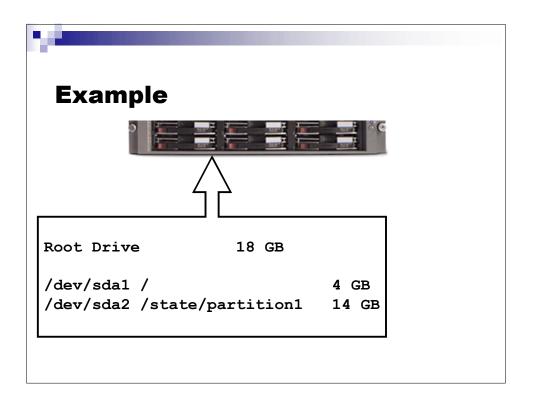


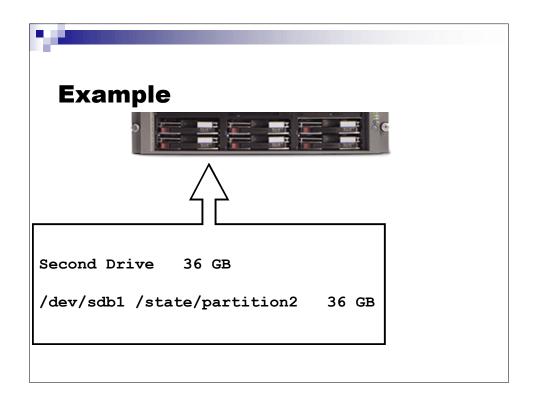


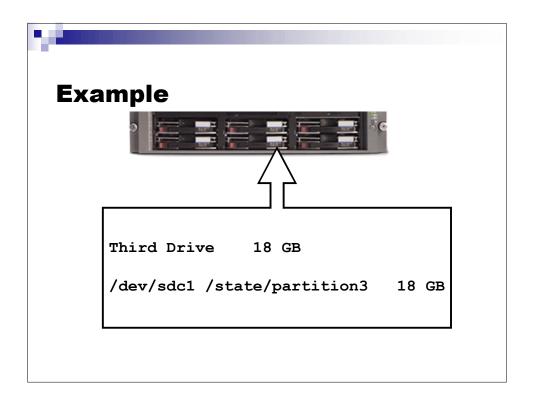


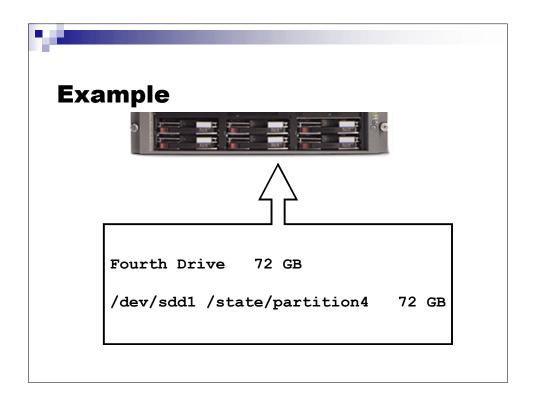


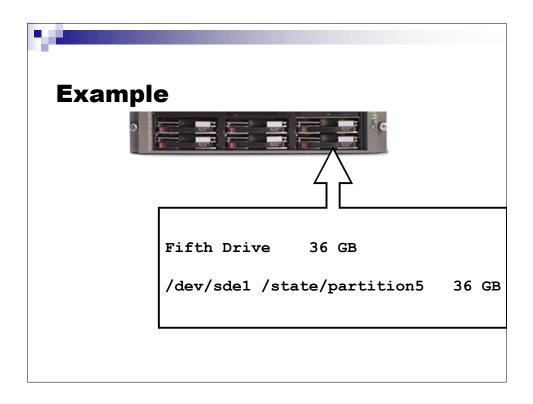


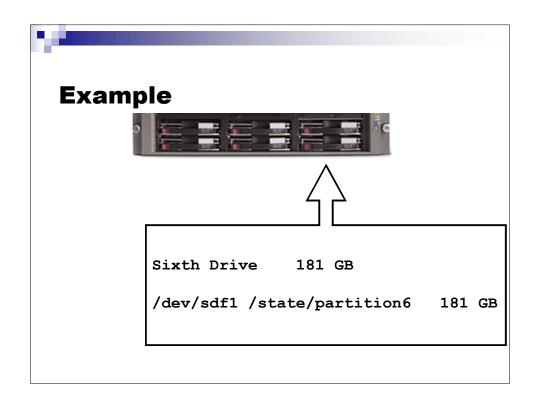




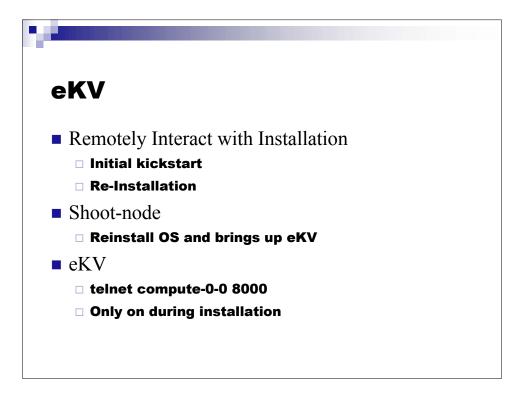


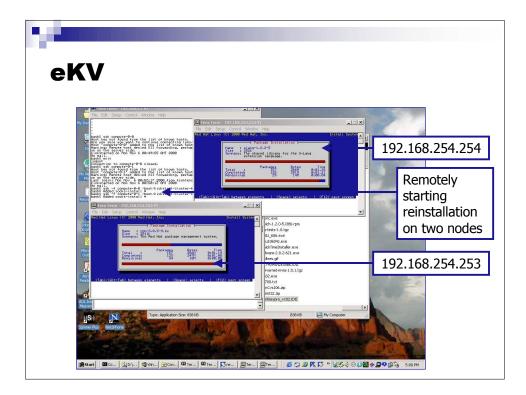


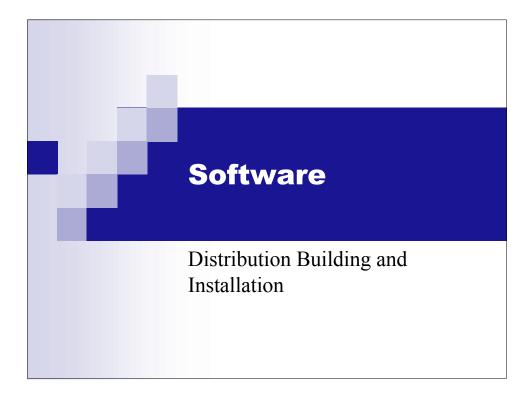


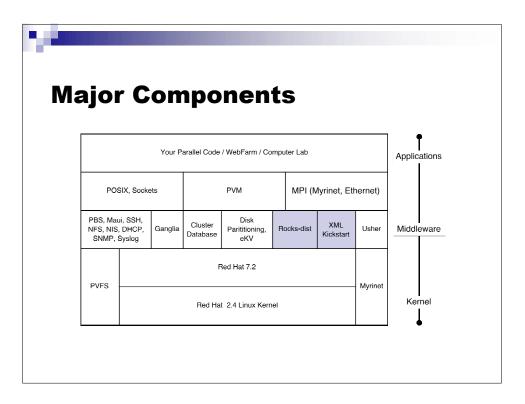


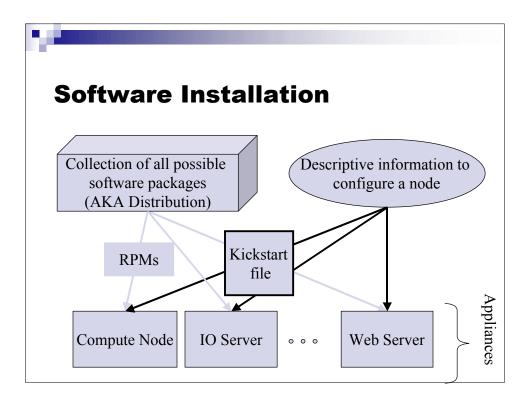
Example							
Device	Name	Size					
/dev/sda1	/	4 GB					
/dev/sda2	/state/partition1	14 GB					
/dev/sdb1	/state/partition2	36 GB					
/dev/sdc1	/state/partition3	18 GB					
/dev/sdd1	/state/partition4	72 GB					
/dev/sde1	/state/partition5	36 GB					
/dev/sdf1	/state/partition6	181 GB					

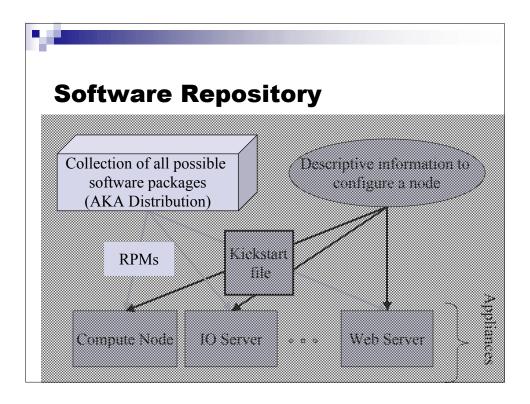


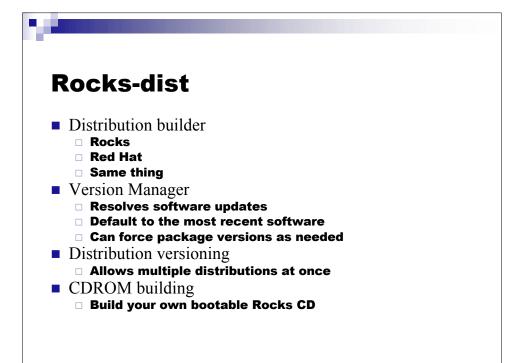


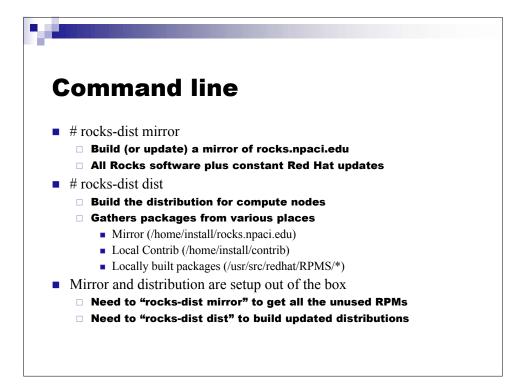


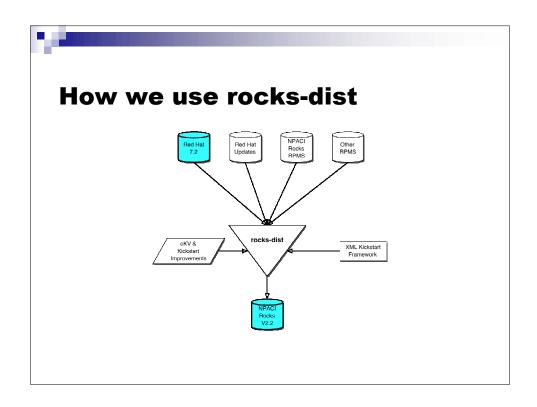


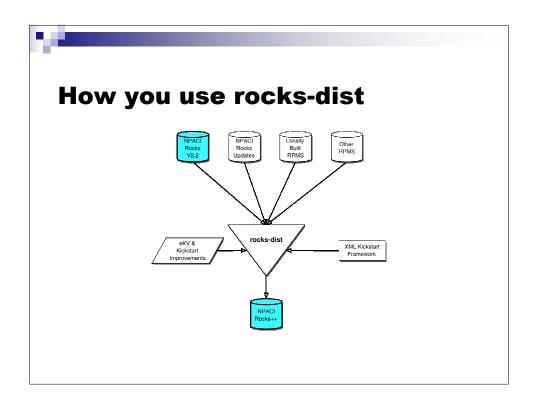


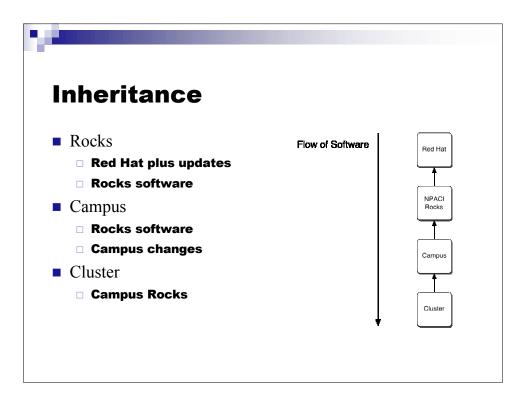


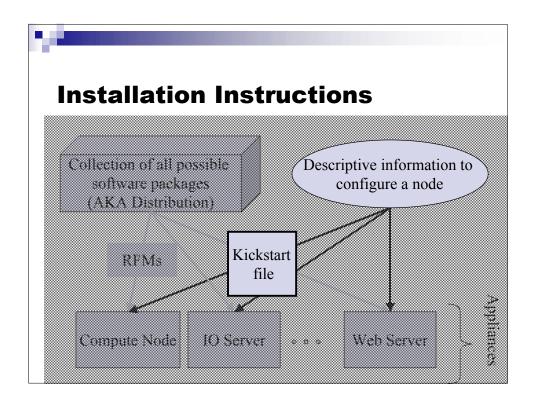


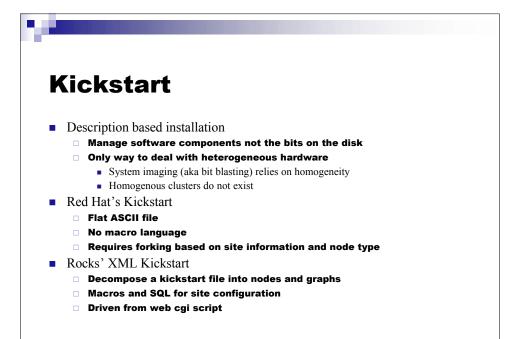


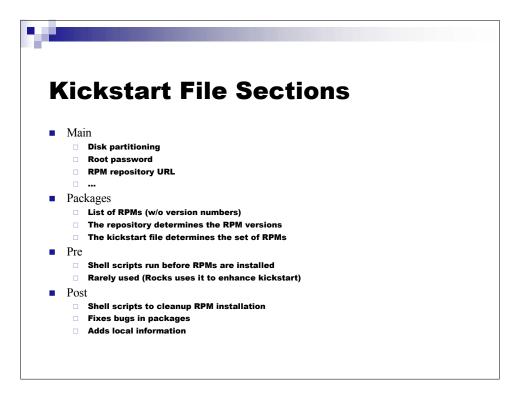


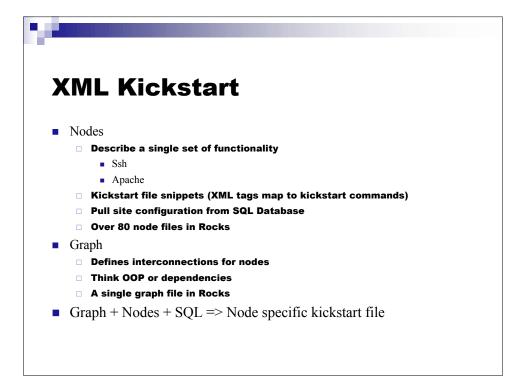












Sar	nple Node File
Uui	
	ion="1.0" standalone="no"?> kickstart SYSTEM "@KICKSTART_DTD@" [ENTITY ssh "openssh"]> >
	<description> Enable SSH </description>
	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>
<post></post>	
at > /	etc/ssh/ssh_config << 'EOF' default client setup
	rwardX11 yes rwardAqent yes
EOF	muruagent yes
:hmod o+rx	/root
nkdir /roo chmod o+rx	t/.ssh /root/.ssh
/post>	

Sa	mple Graph File
	sion="1.0" standalone="no"?> kickstart SYSTEM "@GRAPH_DTD@">
<graph></graph>	
5.	<description> Default Graph for NPACI Rocks. </description>
	<pre><edge from="base" to="scripting"></edge> <edge from="base" to="ssh"></edge> <edge from="base" to="ssl"></edge> <edge arch="i386" from="base" to="lillo"></edge> <edge arch="ia64" from="base" to="elillo"></edge></pre>
	<pre></pre>
	<pre><edge from="compute" to="slave-node"></edge> <edge from="compute" to="usher-server"></edge> <edge from="master-node" to="node"></edge> <edge from="master-node" to="xl1"></edge> <edge from="master-node" to="usher-client"></edge></pre>

