Jnode and the way ahead

Jnode: Java New Operating System Design Effort

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Where we are now

- Bootable in VMware and on selected Hardware
- 64-Bit and Multi-Processor support
- Prototypical UI
- Drivers for networking, human interface and multiple file systems

The ultimate goal

- Java developers' choice of heart
- The OS choice for Java server software
- Be an OS with real-world use cases
- Keep native code out
- Offer a playground for stunning new Java technologies

How to go about it

1. Put strengths into main project, weaknesses into sandbox
2. Stabilize and make it usable
3. Employ standards where applicable
4. Get major companies to use and support Jnode
5. Put more force into sandbox

What we need NOW

- Allow System.exit
- Allow System.setSecurityManager
- Get Tomcat/JBoss to work
- Get Isolates to work
- Enable remote debugging

Technology wishlist

- JINI
- JMS
- JMX
- JNDI
- db4o / Hibernate
- AspectJ
- JAAS

- JNLP
- JAIN
- JMI
- Jboss drools
- JBPM
- Lucene
- JavaMail
- OSGi

Also helpful

- Maven-Like run-time dependency management
- Eat-your-own-dogfood: push jnasm
- Terracotta clustering support
- JavaDesktop integration
- Use UML to describe inner workings
- Use MDA to ease development

Watch out for traps

✗ Looking like a toy OS

✗ Starving sandbox due to lack of integration

✗ Preferring bad "standards" over good API