Subject: Re: [PATCH 0/9] namespaces: Introduction Posted by ebiederm on Sun, 21 May 2006 00:48:25 GMT

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Dave Hansen haveblue@us.ibm.com> writes:

- > On Fri, 2006-05-19 at 08:13 -0700, Andrew Morton wrote:
- >> snapshot/restart/migration worry me. If they require complete
- >> serialisation of complex kernel data structures then we have a problem,
- >> because it means that any time anyone changes such a structure they need to
- >> update (and test) the serialisation.

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- > The idea of actually serializing kernel data structures keeps me up at
- > night. This is especially true when we already have some method of
- > exporting these structures to userspace.

Serialization of kernel data structures is a thorny issue, that we are far enough away from that we don't need to tackle just yet. I do consider it a failure to export/import things properly if you need to use the same kernel version.

For the short term all that is interesting from a checkpoint/restart/migration perspective is that you can have multiple instances of global identifiers, pids, sysvipc ids, etc.

- > However, the proc-maps/mmap approach would require new interfaces to be
- > implemented. There are plenty of attributes not currently readily
- > visible to userspace like VM_NONLINEAR, or resources which are normally
- > inaccessible to userspace like deleted files. Those would need extended
- > user/kernel interfaces.

Deleted files are accessible through /proc/<pid>/fd.

Eric