
Subject: Re: Checkpoint/Restart mini-summit
Posted by [ebiederm](#) on Tue, 15 Jul 2008 18:44:40 GMT
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Daniel Lezcano <dlezcano@fr.ibm.com> writes:

> Hi all,
>
> Here is a proposition a more detailed agenda for the checkpoint/restart
> mini-summit. If everybody is ok with it, I will update the wiki.
>
> Comments are welcome :)

A reading list is useful, even to help get some ideas circulating before we get there.

Ultimately the technical details will need to be resolve by people discussing things and sending patches back and forth on the mailing lists.

I don't think a detailed agenda is going to get us anywhere. Especially not one focused on the implementation details.

I think we need to start by seeing what we can agree on. Certainly we agree that checkpoint/restart needs to be part of the picture. What are the problems that the linux community can solve with checkpoint/restart.

Then we need to talk about what kind of implementation we want to merge into mainline. How do we sell it, and how do we implement it without affecting long term maintainability.

I think the granularity of our operations, and what state we save is important. I don't think how we save it is important unless it affects one of our requirements.

As for the posix draft and the historical Cray & SGI implementations. They were on the wrong track. They did not have namespace support so they could not in general restore their checkpoints.

There are also a lot of things you have failed to touch on, that I'm not going to go into now.

With any luck the mini-summit before OLS will be the start of a conversation that will go on all week, and continue on the mailing lists.

The real question is how do we coordinate our efforts to build a good

linux checkpoint/restart implementation.

> * Documentation

> * Zap : www.ncl.cs.columbia.edu/publications/userix2007_fordist.pdf

> * Metacluster : lxc.sourceforge.net/doc/ols2006/lxc-ols2006.pdf

> * OpenVZ : http://wiki.openvz.org/Checkpointing_and_live_migration

> * Checkpoint/Restart technology :

> http://en.wikipedia.org/wiki/Application_checkpointing

> * Virtual Servers and Checkpoint/Restart in Mainstream Linux : Sigops

> document

There is also the classic emacs undump.

The very simple vmadump from bproc.

Eric

Containers mailing list

Containers@lists.linux-foundation.org

<https://lists.linux-foundation.org/mailman/listinfo/containers>
