

Re: How to compile kernel so it automatically reboots upon a crash instead of generating stack trace and then hang

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Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2008-03/msg05317.html>

- *From:* "Prakhar Krishna" <prakhar2@xxxxxxxx>
 - *Date:* Thu, 13 Mar 2008 07:07:26 -0500
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thanks everyone for the information.

can it be presumed that boot option panic=<x> would always reboot the machine upon a crash/null pointer dereference if it is not stuck in a deadlock? also, is there any place in kernel where, if desired, the panic time can be hardcoded and compiled for my specific test kernel.

intention is to look for a way to make a regular PC with linux OS behave close to a customized hardware appliance through software only mechanism. that way it becomes much easier to send just software to the users, which they can load on any PC without requiring them to have additional hardware inserted into it.

please CC me on replies.

thanks
PK

On Wed, Mar 12, 2008 at 5:40 AM, Bart Van Assche <bart.vanassche@xxxxxxxx> wrote:

On Wed, Mar 12, 2008 at 6:04 AM, Jan Engelhardt <jengelh@xxxxxxxxxxxxxxxx> wrote:

On Mar 11 2008 23:52, Prakhar Krishna wrote:

>
>[I did search the mailing lists archives and the Web but did not find an answer,
> apololgies if this is duplicate question]
>
>i need my linux box to automatically reboot if it ever runs into a
>kernel panic/crash etc.

panic=<timeout> boot parameter, as per

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Documentation/kernel-parameters.txt.

The best solution in this case is a hardware watchdog. Hardware watchdogs are present on some server motherboards, most embedded x86 CPU boards and also in PowerPC CPU's. The Linux kernel supports some hardware watchdogs, see also Device Drivers/Watchdog Timer Support in the Linux kernel config.

The nmi_watchdog=<timeout> parameter might be interesting too. See also Documentation/nmi_watchdog.txt.

Bart.

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Please read the FAQ at <http://www.tux.org/lkml/>

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