

Re: [RFC][UPDATED PATCH 2.6.16] [Patch 9/9] Generic netlink interface for delay accounting

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2006-03/msg08517.html>

- *From:* Balbir Singh <balbir@xxxxxxxxxx>
 - *Date:* Fri, 24 Mar 2006 20:24:59 +0530
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On Fri, Mar 24, 2006 at 09:04:21AM -0500, jamal wrote:

On Thu, 2006-23-03 at 21:11 +0530, Balbir Singh wrote:

On Thu, Mar 23, 2006 at 09:04:46AM -0500, jamal wrote:

Should there be at least either a pid or tgid? If yes, you need to validate here...

Yes, you are correct. One of my test cases caught it too.. But I did not want to untidy the code with if-else's which will keep growing if the attributes change in the future. I just followed the controller example. I will change it and validate it. Currently if the attribute is not valid, a stat of all zero's is returned back.

There are many ways to skin this cat.

As an example: you could make pid and tgid global to the function and set them to 0. At the end of the if statements, you could check if at least one of them is set – if not you know none was passed and bail out.

The latest patch does fix it this issue. In the Changelog 6. `taskstats_send_stats()` now validates the command attributes and ensures that it either gets a PID or a TGID. If it gets both simultaneously the PID stats are sent.

Is this change ok with you?

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As a general comment double check your logic for errors; if you already have stashed something in the skb, you need to remove it etc.

Wouldn't genlmsg_cancel() take care of cleaning all attributes?

it would for attribute setting – but not for others. As a general comment this is one of those areas where cutnpasting aka TheLinuxWay(tm) could result in errors.

:–) I understand.

What I have done is moved all the NLA_PUT_U32 to after verifying the return values of functions fill_*(*sk*). That way we do not stash anything into the *sk* if there are pending errors.

A single message with PID+TGID sounds reasonable. Why two messages with two stats? all you will need to do is get rid of the prepare_reply() above and NLA_PUT_U32() below (just like you do in a response to a GET).

The reason for two stats is that for TGID, we return accumulated values (of all threads in the group) and for PID we return the value just for that pid. The return value is

Ok, I understand the dilemma now – but still not thrilled with having two messages.

Perhaps you could have nesting of TLVs? This is widely used in the net code for example

i.e:

```
TLV = TASKSTATS_TYPE_TGID/PID
TLV = TASKSTATS_TYPE_STATS
```

Look at using nla_nest_start/end/cancel

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Hmm... Would it be ok to send one message with the following format

1. TLV=TASKSTATS_TYPE_PID
2. TLV=TASKSTATS_TYPE_STATS
3. TLV=TASKSTATS_TYPE_TGID
4. TLV=TASKSTATS_TYPE_STATS

It would still be one message, except that 3 and 4 would be optional.
What do you think?

cheers,
jamal

Thanks for your comments,
Balbir

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