Subject: new segmentation violation in sim macro
Posted by Albrecht Gillitzer on Wed, 18 Apr 2012 16:26:41 GMT
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Hi,

I got a new crash with segmentation violation at event number 1651 in executing the sim macro, using a different random seed value = 20.
Otherwise the conditions are still the same: standard simulation macro for pbar d --> p phi pi-, PandaRoot revision = 15051.

In this case it seems to have something to do with STT. The output is attached.

Any idea what it means in detail?

Albrecht

File Attachments
1) crash_20.txt, downloaded 501 times

Subject: Re: new segmentation violation in sim macro
Posted by Lia Lavezzi on Fri, 20 Apr 2012 12:56:11 GMT
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Dear Albrecht,
I just had a look into the piece of code which produces the crash and I found that there a string which is extracted from the path that is not correct. I will fix it and let you know when I am done, so that you can check if it works. Please, be patient since I am working on another issue at the moment, I will fix this as soon as possible.
Best regards,
Lia.

Subject: Re: new segmentation violation in sim macro
Posted by Albrecht Gillitzer on Mon, 23 Apr 2012 13:30:57 GMT
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Dear Lia and Stefano,

The crash doen't block me. The probability is below the per mille level. I didn't happen before and it didn't afterwards, so far. I guess it is a particular combination of generated final state and random numbers in propagation.
Nevertheless I think it is better to report all these crashes in order to eventually remove the bugs responsible for them, one by one.

Best regards,
Albrecht

Subject: Re: new segmentation violation in sim macro
Posted by Lia Lavezzi on Mon, 23 Apr 2012 15:21:23 GMT
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Dear Albrecht,
I fixed the part of code which was filling the string in a bad way, so I hope that now the crash will disappear.
If there are further problems, please let me know.
Best regards,
Lia.

Subject: Re: new segmentation violation in sim macro
Posted by Albrecht Gillitzer on Mon, 23 Apr 2012 15:34:36 GMT
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Dear Lia,

Thank you very much, but how to really test this?
I think if I do an svn update, probably also other things changed meanwhile. Then the history of random numbers before it comes to event 1651 will be different, and thus the non-observation of the crash could be unrelated to your changes.
Anyway, it is good that you found a bug and were able to remove it.

Best regards,
Albrecht

Subject: Re: new segmentation violation in sim macro
Posted by Lia Lavezzi on Mon, 23 Apr 2012 16:40:09 GMT
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Quote:Thank you very much, but how to really test this?
I think if I do an svn update, probably also other things changed meanwhile. Then the history of random numbers before it comes to event 1651 will be different, and thus the non-observation of the crash could be unrelated to your changes.

If you want to test it, you can svn update only the file stt/PndStt.cxx, which is the one with the fixed bug, and try to run the same simulation which was crashing before.

Best regards,
Lia.

Subject: Re: new segmentation violation in sim macro
Posted by Albrecht Gillitzer on Mon, 23 Apr 2012 16:51:36 GMT
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Thank you, I will do this. But it will take a few days, since I have to wait for a series of simulation runs to be completed.

Best regards,
Albrecht