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Subject: Re: TpcRecoTester segmentation when built with cmake

Posted by [Florian Uhlig](#) on Tue, 26 Jun 2007 13:06:37 GMT

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Hi Sebastian

This feature (bug???) has to do that somehow the linking of the libraries is a little different for cmake generated and automake generated libraries. The difference is in the handling of undifined mathematical calculations. With automake the result of a devision by zero is NaN (Not a Number). With this result the program goes on and does all his calculations. Any mathematical operation with a NaN gives as a result NaN. With cmake the result of such an operation is a exeception and the program crashes.

If you look in your code at TpcConfMapFit.cxx line 102 as given in the error message you will find the following line

```
double b=0.5/state[1][0];
```

If state[1][0] is 0 than this operation is not defined and you crash. You should check the variable before the devision and decide what to do whenn the variable is zero.

In my opinion this is a problem and the program should stop at that point signaling an error.

I am looking for that difference between cmake and the autotools for some time, but up to now i didn't find where the difference comes in during the building process.

I hope this helps to understand the error message.

Ciao

Florian

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