
Subject: Re: Riemann track finder crash.
Posted by [Lia Lavezzi](#) on Wed, 26 Jan 2011 17:44:29 GMT
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Hi,

concerning the crash on `PndRiemannHit::operator<`, I think it is due to the fact that `fS` in `PndRiemannHit` is not initialized.

I was having the same crash and by printing the `s()` and `aHit.s()` values inside the `bool operator< (const PndRiemannHit& aHit)` function, i.e. the arclengths which are compared, I got a lot of lines like these:

```
S 5.06921e-307 AHIT.S() 2.80686e-317  
S 5.06921e-307 AHIT.S() 2.80686e-317  
S 3.35472e-304 AHIT.S() 2.80686e-317  
S 3.35472e-304 AHIT.S() 5.06921e-307  
S 5.06921e-307 AHIT.S() 2.80686e-317  
i.e. the values are not initialized.
```

They come from `sortHits()` which is inside `PndRiemannTrack::refit`, called for the first time in `PndMvdRiemannTrackFinder::GetStartTracks()`.

At this stage the `fS` variable of the `PndRiemannHit` is not filled yet and this may lead to the crash.

If the sorting is not necessary in this first call, then the `fS` initialization should fix the problem. What do the experts think of this?

Cheers,
Lia.