
Subject: DPM generator : Bug in DPM fortran code?

Posted by [Klaus Götzen](#) on Tue, 26 Sep 2017 13:25:10 GMT

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Hi DPM experts,

when running many jobs with background events on the kronos cluster, it happens quite regularly, that the jobs get stuck, apparently in an infinite loop. I think I identified the problematic part of code in dpm_gen.f:

```
Nrepeat=0.
560 CONTINUE
  Nrepeat=Nrepeat+1
  if(Nrepeat.ge.100) go to 550

  SumMt=0.
  SumaPz=0.

  do i=1,Nhad
    if(AMF(i).le.0.) AMF(i)=-Amass(NREF(i))    ! Uzhi -Amass
    SumMt=SumMt+sqrt(AMF(i)**2+PXF(i)**2+PYF(i)**2)
    SumaPz=SumaPz+abs(PZF(i))
  enddo

  if(SumMt.gt.SS) go to 560
```

In gdb it looks like it sometimes happens, that this loop to 560 runs infinitely, since SumMt > SS all the time. Could somebody take a look (I'm not a FORTRAN guy) what's going wrong there?

Best regards,
Klaus
