Hi Dimitry,

I suggest you to add printouts in the ProcessHit function of your subdetector, to understand in which point the simulation crashes.

For debug purposes I found very useful also the lines usually commented in base/CbmMCApplication.cxx line 386 Debug for Geant tracking (inside CbmMCApplication::Stepping function) if you uncomment the sprintf you get the volumes tracked for each geant step and you might understand in which material happens the crash. In my experience with the straw tubes I simulated also pions and protons but I did not see such a crash.

I do not know if this information helps you...

ciao, Pablo