Coverity Analysis of MarlinTPC

Martin Killenberg



22. March 2012

æ

'문▶' ★ 문▶

A B A A B A A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A
 A

Martin Killenberg (CERN) Coverity Analysis of MarlinTPC



- Coverity is a commercial static code analyser
- Daily run of the full iLCSoft
- Results on https://covertiy.cern.ch/
- You need a CERN computing account to access it
- It should be possible if you are registered as "external" at CERN. Currently testing to get an account for Christoph.
- I will try to systematically fix the most urgent issues.



42150: Resource leak :processEven() RESOURCE_LEAK New / Unassigned / Other	<pre>382 void IonsInVoxelsProcessor::end() 384 { 385 if (_rootFile) 386 { CID 42149: Resource leak (RESOURCE_LEAK)</pre>	
42149: Resource leak ∵end() RESOURCE_LEAK New / Unassigned / Other	Calling allocation function "mariintpc::VoxeITPC::fetchVoxeICollection(double)". [show details] Variable "this-2_voxeITPC->fetchVoxeICollection(1.)" is not freed or pointed-to in function "mariintpc::lonsInVoxeIsProcessor:filITree(IMPL::LCCOllectionVcc ')". [show details] Failing to save storage allocated by "this-2_voxeITPC->fetchVoxeICollection(1.)" leaks it 387 fillTree(_voxeITPC->fetchVoxeICollection());	
42121: Parse warning /MarlinTPC/HEAD/rectFinderProcessor.cc PW.USELESS_TYPE_QUALIFIER_ON_RETURN_TYP New / Unassigned / Other	388 389 _rootFile->Write(); 390 _rootFile->Close(); 391 delete _rootFile; 392 _rootFile=0;	
42120: Parse warning /MarlinTPC/HEAD/rectFinderProcessor.cc	393chargeInVoxelsTree=0; 394 } 	

3

Ξ.

・ロト ・回ト ・ヨト ・ヨト

Coverity Results

MarlinTPC

directory	#errors	sub-directory	#errors
analysis	35		
digitisation	24		
		general	53
		padbased	25
reconstruction	153	photoelectric	12
		pixelbased	16
		trackreco	47
calibration	4		
examples	0		
simulation	6		
tools	104		
tpcconddata	14		
validation	44		
sum	384		

directory	#errors
sum	72

4

э.

・ロト ・回ト ・ヨト ・ヨト