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Q: When I try accessing the output with Python (PyROOT), my script crashes with an error like this: "SystemError: problem in C++; program state has been reset", at the point when I get the entries from the TTree with "TTree.GetEntry()" command.

The problem:

I get a crash with the error message above running a script like this:

```
import ROOT
#open the .root file
f = ROOT.TFile( "OutputFile.root" )
#open the TTree
tree = f.Get( "MyAnalysisTree" )
tree.GetEntry( 0 )
```

The script does not crash if we load `!MyAnalysisInfoTree` instead of "MyAnalysisTree", with `tree = f.Get("!MyAnalysisInfoTree")`.

This because the `!InfoTree` stores only simple plain ROOT objects, while the `Tree` stores physics data, and in order to store them in an effective way, it uses data structures as `vector< TLorentzVector >` and `vector< vector < int > >`.

Unfortunately current ROOT version (at time I'm writing) does not support natively those objects, thus we need to load the Python dictionary module from ATLASWatchMan, `!ATLASWatchMan.Bindings`, after the `!ROOT` module.

The Solution:

```
import ROOT
import ATLASWatchMan.Bindings

#open the .root file
f = ROOT.TFile( "OutputD3PD.root" )

#open the TTree
tree = f.Get( "GeneralSearchTree" ); tree.GetEntry( 0 )
```

-- RiccardoMariaBianchi - 23-Oct-2009

This topic: [Main > ATLASWatchManFAQImportBindings](#)
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