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Subject: error undefined symbol TSpectrum  
Posted by [EliGaliana](#) on Thu, 14 Dec 2017 12:26:21 GMT  
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Hi,  
In the FinishTaks() method of class R3BCalifaMapped2CrystalCalPar.cxx (which is a FairTask) I implemented a TSpectrum call in order to find some calibration parameters, such as,

```
#include <TSpectrum.h>
...
TSpectrum *ss = new TSpectrum(fNumPeaks);
for (Int_t i=0;i<fNumCrystals;i++){

nfound = ss->Search(fh_raw_energy_crystal[i],fSigma,"",fThreshold);
fChannelPeaks = (Double_t*) ss->GetPositionX();
TMath::Sort(nfound, fChannelPeaks, idx, kTRUE);
...
}
```

When I compile everything is ok. However, when I try to run the macro using the fairtask R3BCalifaMapped2CrystalCalPar, appears the following error:

```
/home/fpddv1/elisabet.galiana/Escritorio/FairSoft/FairSoft_Install/bin/roo.exe: symbol lookup
error: /home/fpddv1/elisabet.galiana/Escritorio/R3BRoot/R3BRoot_build/lib/libR3
BCalifa.so.SOVERSION: undefined symbol: _ZN9TSpectrumC1Eid
```

I have checked for another usages of TSpectrum in R3BRoot and I found that in tof/R3BTofdCal2HitPar.cxx it is used but currently commented out. In addition, I try to solve it by introducing the solution found in the ROOT forum: <https://root-forum.cern.ch/t/undefined-symbol-with-tspectrum/24109> but it doesn't work either.

Could you give me some light about it, please?

Many thanks in advance.

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Subject: Re: error undefined symbol TSpectrum  
Posted by [Dmytro Kresan](#) on Thu, 14 Dec 2017 12:38:44 GMT  
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Hi,

The ROOT class TSpectrum is compiled into shared library libSpectrum.so. In order that your code works, you need to specify a dependency of libR3BCalifa.so on libSpectrum.so. To do so, open califa/CMakeLists.txt and change lines 62-63 to the following:

```
set(DEPENDENCIES
    Spectrum R3Bbase R3BData R3BPassive R3BxBall)
```

Best regards,  
Dima

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Subject: Re: error undefined symbol TSpectrum  
Posted by [EliGaliana](#) on Thu, 14 Dec 2017 14:37:33 GMT  
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Hi Dima,

Many thanks! now it is working without problems.

Cheers,  
Eli

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