

GammaLib - Bug #1283

GCTAObservation::Write() don't write irf elements into xml file

07/16/2014 11:40 AM - Lu Chia-Chun

Status:	Closed	Start date:	07/16/2014
Priority:	Normal	Due date:	
Assigned To:	Lu Chia-Chun	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	00-09-00		
Description			
<p>The attached codes are intended for loading irfs for a given run, and create an observation xml file by the write(GXMLElement) method. write() is supposed to write elements of eventlist, aeff, psf etc. into an xml file.</p> <p>write() doesn't work as expected because m_aeffname, m_psfname etc... are not filled except when the irfs are assigned by reading an input xml.</p> <p>I propose the following: fill m_aeffname etc. in GCTAObservation::response(rsp) when a rsp is assigned.</p> <ol style="list-style-type: none">1. set up a cta observation cta = GCTAObservation() cta.id('{run}'.format(**globals())) cta.load(f_event) print 'load', f_event rsp = cta.response() rsp.load_aeff(f_aeff) print 'load', f_aeff rsp.load_psf(f_psf) print 'load', f_psf rsp.load_background(f_bg) print 'load', f_bg cta.response(rsp) xmlelm = GXMLElement('observation_list') cta.write(xmlelm)			

History

#1 - 07/16/2014 12:10 PM - Lu Chia-Chun

I added a few lines in GCTAObservation::response(). It seems to work.
Please check this branch.

<https://github.com/chiachun/gammlib/tree/1278.2-improve-GCTAResponseTable>

```
void GCTAObservation::response(const GResponse& rsp) {  
    // Get pointer on CTA response  
    const GCTAResponse* ctarsp = dynamic_cast<const GCTAResponse*>(&rsp);  
    if (ctarsp == NULL) {  
        throw GCTAException::bad_response_type(G_RESPONSE);  
    }  
}
```

```
// Copy response function  
    m_response = *ctarsp;
```

```
// Copy filenames of response functions  
    if (m_response.aeff()){  
        m_aeffname = m_response.aeff()->filename();  
    }  
    if (m_response.psf()){  
        m_psfname = m_response.psf()->filename();  
    }  
    if (m_response.edisp()){  
        m_edispname = m_response.edisp()->filename();  
    }  
}
```

```
if (m_response.background()){  
    m_bgdname = m_response.background()->filename();  
}
```

```
// Return  
return;  
}
```

#2 - 07/16/2014 06:16 PM - Knödseder Jürgen

- *Status changed from New to Resolved*
- *Assigned To set to Lu Chia-Chun*
- *Target version set to 00-09-00*
- *% Done changed from 0 to 100*

Indeed, this looks reasonable. Merging of the code will be done when resolving action #1278.

#3 - 07/20/2014 11:21 PM - Knödseder Jürgen

- *Status changed from Resolved to Closed*