

art - Feature #3077

Request comparison functions for art::Ptr

10/27/2012 10:27 AM - Rob Kutschke

Status:	Rejected	Start date:	10/27/2012
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:		Spent time:	0.00 hour
Scope:	Internal	SSI Package:	
Experiment:	-		

Description

Please add the following function templates, or equivalent, to the Ptr.h. Feel free to change the names of the function templates. I have written them as free functions but I would also be happy with member functions, or even member operator functions if you prefer. Please add whatever other comparison operators you think make a complete set.

```
bool lessThan ( const art::Ptr<T>& p0, const art::Ptr<T>& p1 ){
    if ( p0.id() < p1.id() ) {
        return true;
    } else if ( p0.id() > p1.id() ) {
        return ( p0.key() < p1.key() );
    }
    return false;
}
```

```
bool equal ( const art::Ptr<T>& p0, const art::Ptr<T>& p1 ){
    return ( p0.id() == p1.id() && p0.key() == p1.key() );
}
```

I did not write operator< and operator> since there could be ambiguity about the sorting criteria - one could also consider sorting by address of pointer. Should we also add that set of functions - I don't see the need at the moment?

Rob

History

#1 - 10/27/2012 10:51 AM - Rob Kutschke

<emily Littela voice>Never mind</emily Littela voice>

I looked for operators < and == but did not see them. Anderi pointed out that they are indeed there.

#2 - 11/02/2012 11:39 AM - Christopher Green

- Status changed from New to Rejected

Already present.