art - Bug #6422

ValidHandle lacks functionality

06/07/2014 12:32 AM - Andrei Gaponenko

Status:	Rejected		**Start date:**	06/07/2014
Priority:	Normal		**Due date:**	
Assignee:	Christopher Green		**% Done:**	0%
Category:	Navigation		**Estimated time:**	2.00 hours
Target version:	1.10.00		**Spent time:**	0.50 hour
Occurs In:			**Experiment:**	Mu2e
Scope:	Internal		**SSI Package:**	art

Description

I get the compilation error below when using a ValidHandle with
FindOne:

```
auto ih = event.getValidHandle<TrackSummaryCollection>(trackInput_);

art::FindOne<art::Ptr<SimParticle>, mu2e::TrackSummaryMatchInfo>
   f1(ih, event, truthMapInput_);
```

Using a Handle instead of ValidHandle allows the code to compile.

Andrei

```
/data/fermiapp/sl6/artexternals/art/v1_08_09/include/art/Framework/Core/FindOne.h: In instantiatio
n of 'art::FindOne<ProdB, DATA>::FindOne(const PtrProdAColl&, const art::Event&, const art::InputT
ag&) [with PtrProdAColl = art::ValidHandle<std::vector<mu2e::TrackSummary> >; ProdB = art::Ptr<mu2
e::SimParticle>; Data = mu2e::TrackSummaryMatchInfo]':
Analyses/src/TrackSummaryAnalyzer_module.cc:292:39:   required from here
/data/fermiapp/sl6/artexternals/art/v1_08_09/include/art/Framework/Core/FindOne.h:472:57: error: n
o type named 'value_type' in 'class art::ValidHandle<std::vector<mu2e::TrackSummary> >'
   typedef typename PtrProdAColl::value_type::value_type ProdA;
                                                         ^
/data/fermiapp/sl6/artexternals/art/v1_08_09/include/art/Framework/Core/FindOne.h:473:53: error: n
o type named 'value_type' in 'class art::ValidHandle<std::vector<mu2e::TrackSummary> >'
   detail::IPRHelper<ProdA, ProdB, Data, dataColl_t> finder(e, tag);
                                                     ^
/data/fermiapp/sl6/artexternals/art/v1_08_09/include/art/Framework/Core/FindOne.h:473:53: error: n
o type named 'value_type' in 'class art::ValidHandle<std::vector<mu2e::TrackSummary> >'
```

History

#1 - 06/09/2014 11:47 AM - Christopher Green

- Category set to Navigation

- Status changed from New to Accepted

- Target version set to 1.10.00

- Estimated time set to 2.00 h

- Experiment Mu2e added

- Experiment deleted (-)

- SSI Package art added

- SSI Package deleted ()

This is an unintentional omission from the interface of Validhandle, and will be fixed.

#2 - 06/10/2014 10:18 AM - Christopher Green

- Status changed from Accepted to Feedback

- Assignee set to Christopher Green

Can you confirm which version of art you were using when you encountered this problem? We have a test in the current version of art (1.09.03) which would seem to preclude at first glance the problem you see. The feature has been in art since 1.08.10 and was added with 258c74f4.

#3 - 06/10/2014 10:51 AM - Andrei Gaponenko

I am using art v1_08_09, which just missed the fix.
Andrei

#4 - 06/10/2014 11:38 AM - Christopher Green

- Status changed from Feedback to Rejected

Not a bug: missing feature was added in 1.08.10.