-- IllyaShapoval - 08-Oct-2012

General information

Here is the documentation on CondDB compatibility tracking system:

Title	Author(s)	Reference	Paper	Volume, pp	Date
LHCb Software and Conditions Database Cross-Compatibility Tracking: a Graph-Theory Approach	I.Shapoval et al.	Proceedings of IEEE NSS 2012 ⧉	LHCb-PROC-2012-058 ; CERN-LHCb-PROC-2012-058 ⧉	7	October 2012
Proposal on LHCb Software and Conditions Database Cross-Compatibility Tracking System: a Graph-Theory Approach	I.Shapoval et al.	LHCb Note	CERN-LHCb-PUB-2012-008 ⧉	10	June 2012

CondDB compatibility related terminology

CTS - CondDB compatibility tracking system;

The compatibility relations, tracked by the CTS, can be established between the following entities:

- CondDB state - an entity fully identifiable by a CondDB tag (either local, or global);
- Software state - an entity fully identifiable by a software package/project version;
- Real/MC data - an entity fully identifiable by, e.g., a GUID of the data file, or any other wider identifier for a set of files.

CondDB incompatibility criteria/types

A) A CondDB tag is:

- (A1) not usable (job execution fails) with another CondDB tag;
- (A2) usable (no job execution failure) with another CondDB tag BUT such usage is not valid;

B) A software package/project is:

- (B1) not usable with a certain CondDB tag (job execution fails);
- (B2) usable with a certain CondDB tag (no job execution failure) BUT such usage is not valid;

C) A software package/project is:

- (C1) not usable (job execution fails) with certain MC/real data;
- (C2) usable with certain MC/real data BUT such usage is not valid.

D) A CondDB tag is:

- (D) usable with certain MC/real data BUT such usage is not valid.

Internal CondDB incompatibilities

CondDB DDDB tag	CondDB LHCBCOND tag	CondDB SIMCOND tag	CondDB DQFLAGS tag	Incompatibility type	Reason	Contact person

Brunel vs CondDB incompatibilities

Package name	Package version	Brunel version	CondDB DDDB tag	CondDB LHCBCOND tag	Incompatibility type	Reason	Contact person

DaVinci vs CondDB incompatibilities

Package name	Package version	DaVinci version	CondDB DDDB tag	CondDB LHCBCOND tag	Incompatibility type	Reason	Contact person

Gauss vs CondDB incompatibilities

Package name	**Package version**	**Gauss version**	**CondDB DDDB tag**	**CondDB SIMCOND tag**	**Incompatibility type**	**Reason**	**Contact person**

This topic: LHCb > CondDBIncompatibilities
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