



ChorusDB status

Roumen TSENOV,
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ChorusDB schema

Event header
- run No.
- event No.
- label
- trigger pattern
- bit pattern

Run()
Event()
CS period()
Stack()
Module()

PChorusEvent

Interface to CHORUS bookkeeping DB (Oracle)

Interface to CHORUS Phase I scanning DB (Oracle)

PChoralEvent
Run();
Event();
Period();
Stack();
Module();

PChantEvent

PEmulsionData

Zbank object
(top STEV bank)

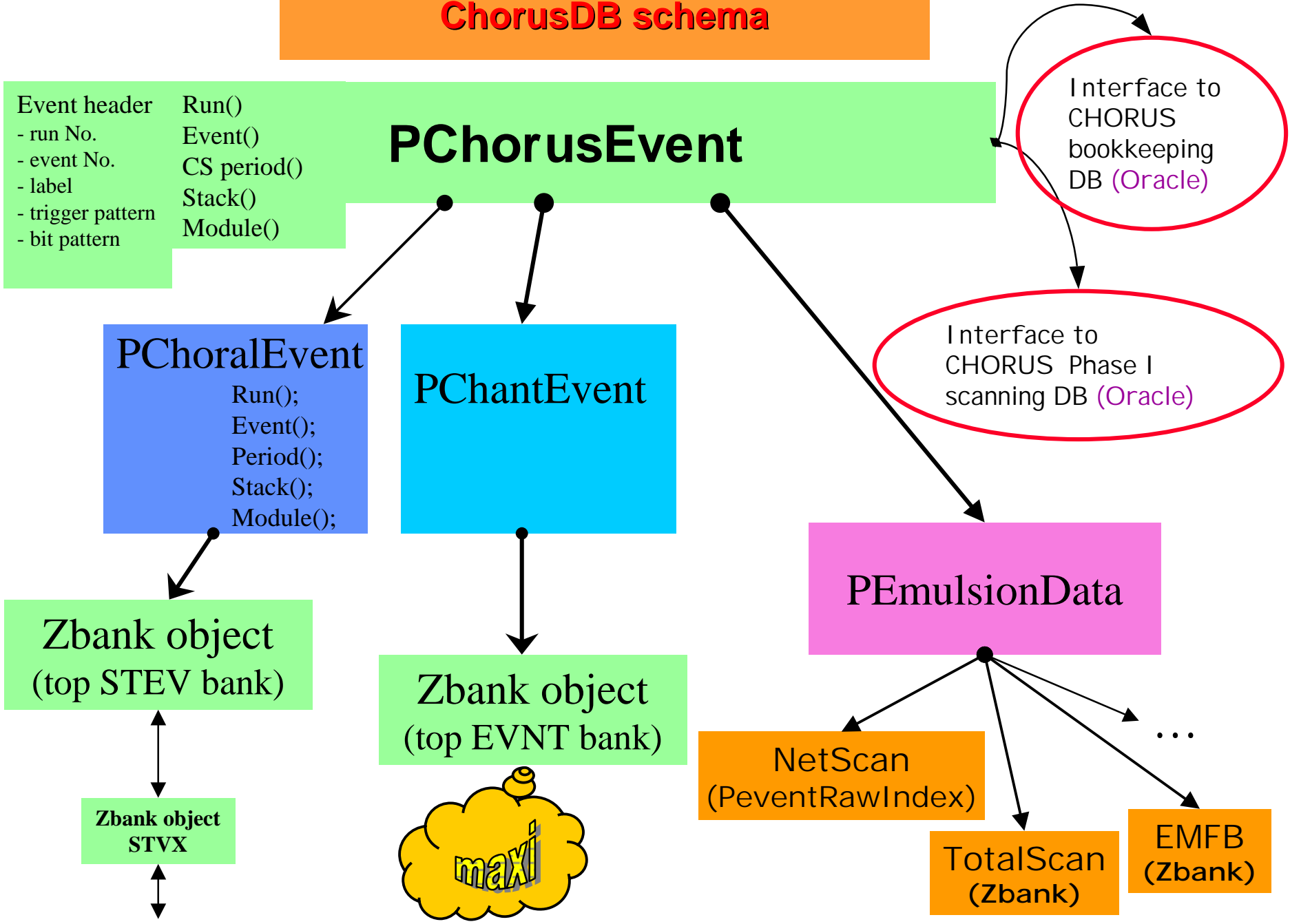
Zbank object
(top EVNT bank)

NetScan
(PeventRawIndex)

TotalScan
(Zbank)

EMFB
(Zbank)

Zbank object
STVX



Netscan data

PEventRawIndex

Vertex...

(array of...; one per plate)

PEmulsionPlates

2 alignment objects

(array of...; one per track)

PLinkedTracks

array of PSegRaw

PFxxRaw

array of PSegRaw

aligned track segments

raw measurements

align + copy (~10% of segments)

Points of progress

- ◆ **Many technical problems solved (+ V.T.):**
 - *delete and replace functions*
 - *splitting large DB files to AP (autonomous partitions) less than 2 GB in size*
 - *DB renumbered according to Nagoya requirements*
 - *backup procedure tested, but HPSS not yet*
 - *indexing prepared (not implemented)*
- ◆ **All available data can be retrieved from within Fortran application (including raw NetScan)**
- ◆ **Documentation improved considerably. C++ code documented via DOC++ system; see:**
<http://choruswww.cern.ch/Offline/ChorusDB/docxx/html/aindex.html>

◆ **All Choral mini-dst (STEV bank tree) loaded**

1994 - production version 12-MAY-1998

1995 - production version 06-APR-1998

1996 - production version 18-APR-1999, 25-MAY-1999, 09-JAN-1998

1997 - production version 20-JAN-1998, 03-JUN-1999

(One can consult

/afs/cern.ch/user/c/chprod/prod/1996.10-Sep-99/stev.lst ,*

prepared by I.M.)

◆ **18 GB (9 DB) of raw NetScan data loaded**

◆ **New 646 Bari events loaded**

Data available now

- ◆ ~ 28 GB of data
- ◆ All events - 2 271 510
- ◆ Choral mini-dst - 2 271 510
- ◆ Chant maxi-dst - 1 538
- ◆ Events with emulsion data - 12 884
 - of them:*
 - with NetScan data - 11 942
 - with EMFB data - 942

“to do” List

- ◆ **NetScan data filtering, alignment, linking of segments in tracks and Fortran access to filtered data**
- ◆ **Output speed for very large events when read data through Chant frame** (*guilty piece of code identified - reference links setting*)
- ◆ **TotalScan data (Salerno)** (*no anticipated problems*)
- ◆ **Security (foolproof) - Objectivity support staff at CERN is working on that**
- ◆ **routine backup** (*to HPSS ?*)
- ◆ **Interface to Chorus bookkeeping-data** (**chinfo**) (*+I.M.*)
- ◆ **Interface to CHORUS Phase I scanning DB** (**Oracle**) ?