Major changes in Quick Simulator since ACFA WS@Beijing

Akiya Miyamoto at JLC weekly meeting @KEK, 5-Feburary-1999

(see http://www-jlc.kek.jp/subg/offl/lclib/lclib.html http://www-jlc.kek.jp/subg/offl/jsf/jsf.html for more details)

1. VTX

- * # VTX layer can be > 2, Hit points are gaussian smeared.
- * Production:CDC_VTX;Track_Parameters

Use only inner and outer most hits. (as a temporary version)

* Detector Parameter set for 4 layer VTX

r	$oldsymbol{Z}$	
2.4	+Ð 5 cm	Insufficient coverage without forward vertex detector
3.6	+Ð 7.5 cm	
4.8	+₽ 10.0 cm	
6.0	+Ð 12.5 cm	

(similar program is prepared for JIM.)

2. Interface to BASES/SPRING Generator

- *Prepare ee -> WW generator as an example.

 Most of the source code written by fortran is reused.
- * Now, K.Fujii is thnikng about PDG class to write all codes by C++.

3. SIMDST (Common simulator output)

- * According to the request by S. Yamashita, simulator data format to be used by QuickSimulator and JIM are considered. A lot of CPU time is required to produce JIM data. A simple and small data structure to share data production is requested.
- * Use FORTRAN unformatted I/O.

 Though the binary data structure depends on OS, it is easy to use.
 - ~ 10kbyte/300 GeV ZH event by Quick Simulator.
- * ntuple or root file may be created.
- * Test data is now placed at /.../ccjlc.kek.jp/fs/ea0/simdata/ It is also available at, http://www-jlc.kek.jp/subg/offl/simdst/data/

ROOT file at this location could be accessible by ROOTD through network. Does some one has interested to do R&D?

4. Comming next?

- * make sample data by Quick Simulator, and put them on web and ftp server.
- * JIM will be released soon. D> Make a comparison.
- * Event Display of SIMDST (by Nakamura san?)
- * More event generator.
- * Prepare codes to read MC data from a file.

* ...