
SIMDET Development

June 5, 2002:

Simdet V401 released (original release)

September 20, 2002:

New release (revision) Rel-4-0-2 of the **CVS module Simdet**

October 9, 2002:

The configure script is modified to check for gmake 3.79 or greater. A bug has been corrected (the vecsub library is now created if --with-vecs is used).

October 29, 2002:

A bug has been corrected in the Simdet Fortran routine sistor.F . Now the event history of the PYTHIA record is stored (if 'HIST 1' is used)

November 11, 2002:

Simdet now is able to read generator input in StdHep format (StdHep **v5_01**).

November 12, 2002:

Fortran interface to gzip package modified (several I/O streams)

Small correction in Makefile.bin.in using "**MAKE=gmake**" to be consistent with the configure script.

January 21, 2003:

Small bug corrected in gzclose (reset lun table entry if closed successfully)

configure --help

Usage: configure [options]

Options: [defaults in brackets after descriptions]

Configuration:

--help	print this message
--nosimu	only all stable particles without detector response [detector response]
--nocov	no full covariance matrix [full covariance matrix]
--cllc	the CLIC linear collider option [no]

Directory and file names:

--prefix=PREFIX	install in PREFIX [./build]
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Features and packages:

--with-circe	enable pythia event generator with circe [no]
--with-bkgr	enable pythia event generator with background [no]
--with-vecs	include utility package vecsub [no]
--without-gzio	no zipped output files [zipped files possible]
--with-stdhep	include StdHep library for reading HepEvt format [no]

vecsub

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C*****
C*
C*          VECSUB - DELPHI
C*
C*  Authors: A. Peterson, Guy WORMSER, Patrick ROUDEAU, Yves SACQUIN,
C*           Paul DAUNCEY, Pierre Antilogus, Markus Elsing
C*
C*
C*  Version adapted to CLIC Physics Studies M. Battaglia, Sept. 2000
C*
C*  Modified to double precision common blocks for use with PYTHIA-6
C*      - CALL LUXXXX -> CALL PYXXXX
C*      - set MTRACK to 1500
C*      - set the size of VECP to 2*MTRACK
C*      - Allow up to 500 tracks/event in all clustering methods.
C*          (PUYCLU,PUDCLU and PUJET4 have now a limit at 500 tracks)
C*
C*  Modified to Simdet Version 4,   H. Vogt, June 2002
C*
C*****
C  -----
C  VECSUB is a useful package for vector handling and provides an interface
C  to all the LUND physics analysis routine such as sphericity and thrust
C  computations, cluster finding, and so on.
C  -----
C  All the LUND physics routines which are used are those of the standard JETSET library,
C  as described in the LUND manual.
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Tagging Improvement

Proposal by Thorsten Kuhl

Use helix instead of linear interpolation for the decay point for charged decaying tracks.

Introduction of a tail factor to take into account bad track fits (Brahms)

Schedule: End of May 2003
