Subject: FR4 material density in Mokka (HCAL)
Posted by lucaci on Tue, 27 Nov 2007 11:19:46 GMT
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Hello,
it was brought to my attention that there is an inconsistency in the PCB FR4 material density.

In the code of TBhcal05.cc it is stated that the densities are taken from
http://pcba10.ba.infn.it/temp/ddd/ma/materials/list.html
and the FR4 density is set to 1.025g/cm3.

However, in the above mentioned list, there are 3 materials with 'FR4' in the name: NEMA_FR4,
M_NEMA FR4 and T_FR4.
Although they all have the same composition, their density differs: 1.025 g/cm3 for the first case,
and 1.7 g/cm3 for the last two cases.

Does anybody know an explanation for this?

Regards,
Angela.

Subject: Mokka MySQL DB down on December 4
Posted by musat on Thu, 29 Nov 2007 09:57:18 GMT
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Dear friends,

Our central MySQL server, as well as the Mokka CVS repository
will be down on December 4 in the morning, and will be restarted
in the afternoon, the same day.

Please excuse us for the troubles that this may cause.

Cheers, Paulo and Gabriel

Subject: Change in model LDC01_05Sc
Posted by musat on Thu, 06 Dec 2007 16:58:09 GMT
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Dear Mokka users,

A change was made in the composition of model LDC01_05Sc:
sub-detector tpc07 was replaced by the new tpc08 implemented
by Steve Aplin. The change was made in the central DB, so in
order to build model LDC01_05Sc as specified by this central DB,
you'll need to checkout the head of Mokka (containing new driver
tpc06) and re-compile Mokka.

Cheers, Gabriel

Subject: New release Mokka-06-05-p02
Posted by mora on Fri, 21 Dec 2007 17:05:19 GMT
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Dear friends,

The new Mokka release 6.5p02 is available at the usual address

mokka.in2p3.fr

You should need it if you want to simulate the last LDC base line (V5) and also the LDC', toward a
LDC-GLD merging.

Merry christmas !!!

From Release Notes:

  I. Ecal, -z endcap hits fixed
 II. New parameters in DB for digitilization
III. GEAR interface updates
 IV. Ecal plug (or ring around Lcal)
 V. New orientation for Ecal slabs in end caps

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Please note that:

1. This Mokka release co-works with Geant4 9.0.p01 and CLHEP 2.0.3.1

LCIO v01-05, v01-06, v01-07, v01-08-01 or v01-09 (recommended),
gcc 3.2.3, gcc 3.4.5 or
gcc 4.1.1, SL3 or SL4, optionally with Gear v00-08

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I. Ecal, -z endcap hits fixed

Before fixes, all end cap hits in Ecal were always placed in
+Z end cap. Fixed.

II. New parameters in DB with hints for digitilization

Tree new parameters in Mokka DB with hints for digitilization:
Hcal_digitization_tile_size and TPC_pad_width.
These parameters have no meaning for Simulation,
they are just written in Gear files used by reconstruction processes.

Note: TPC_pad_height is used in the simulation in tpc08 (TPC06.cc)
    which creates tracker hits at the meassurement surfaces defined
    by the pad rows

III. GEAR interface updates:
   - GEAR interface added to LumiCal and LumiCalX drivers. GEAR interface
     removed from SLcal01, as that superdriver is using LumiCalX (and thus
     the LumiCalX GEAR interface).
   - SHcal03 GEAR interface extended to treat the HCAL ring properly.
     The new version of this code requires GEAR v00-08 or newer.
   - SHcal03 GEAR interface will now use Hcal_digitization_tile_size
     to describe the CellSize0 and CellSize1 parameters in the GEAR file,
     i.e. those are now 30mm by default instead of 10mm.

IV. Ecal plug (or ring around Lcal)

A new device, the Ecal plug (or the Ecal ring) is built by SEcal02.
It implements a squared-rounded ring around the LCal. The central
cylinder hole follow the Lcal placement, depending on the crossing
angle, and also its size takes in account the new parameter
Ecal_Lcal_ring_gap which defines the distance between the Lcal and
the ring.
It has the same Ecal internal structure. It mean, the same number of

layers, the same thickness and the same Z placement as the end cap
modules, both for the radiator and Si layers. The only difference,
the sensitive Si layer is a flat plate of Si, without any structure
like wafers, guard rings or fiber walls. The cell size is the same as
for the Ecal end caps. The hits from this new device are written in
two new calorimeter hits collections: EcalEndcapRingCollection and
EcalEndcapRingPreShowerCollection.

V. New orientation for Ecal slabs in end caps

The way to place the slabs inside the Ecal end cap modules is now
turned of pi/2, in such way the alveolus are longer than before.
It avoids projective cracks at (0,0,0) plan, but also it's now
possible to configure a correct extra size for the end caps, around
~ 77 mm bigger than the Barrel. The current implementation has to
be reviewed in the future, as it was done a bit quiclky for this
release.

Subject: Mokka and Geant4 9.1
Posted by vogel on Thu, 17 Jan 2008 10:36:56 GMT
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Good news, everybody!

Geant4 9.1 is out since about a month:
 Download
 Release Notes
 Documentation Update
Everything seems to compile and run fine … A few new physics lists are available
(QGSP_DIF, QGSP_BERT_DIF, QGSC_BERT, QGS_BIC, FTFP_BERT, and FTF_BIC) which
could be added to the “PhysicsListFactory”.

Cheers,
Adrian

Subject: Birk's law in Mokka
Posted by lucaci on Thu, 17 Jan 2008 13:51:26 GMT
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Hello,
does anybody know if there is am implementation of the Birk's law in Mokka?

This law describes the scintillator energy response, and it affects all scintillator detectors. I understood that this is implemented in GEANT (see for example http://www.kph.uni-mainz.de/computing/docu/geant/Geant-HTML/ node290.html), but I do not know if this is the case for Mokka.

Thank you,
Angela

Subject: Re: Birk’s law in Mokka
Posted by vogel on Thu, 17 Jan 2008 14:09:04 GMT
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Angela wrote:I understood that this is implemented in GEANT but I do not know if this is the case for Mokka.
Hi Anglea,

GEANT (in capital letters) and also the year 1993 sound pretty much like the old, Fortran-based GEANT3. The term “Birk” appears neither in the Physics Reference Manual nor in the source code of the current Geant4 release 9.1, but you may want to browse through the Physics Reference to see if the same thing is just named differently.

Cheers,
Adrian

Subject: PCB material
Posted by lucaci on Wed, 23 Jan 2008 18:52:14 GMT
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Hello,

can somebody tell me which is the proper material and which radiation length to be used for building a PCB with a given number of layers in Mokka?

Thank you,
Angela

Subject: Re: PCB material
Posted by mora on Thu, 24 Jan 2008 17:33:41 GMT
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Hi Angela,

For the calorimeters currently available in Mokka the PCB material is "G10". You can find the radiation length as calculated by Geant4 reading the Mokka output when building the geometry: 16.2 cm.

Cheers,
Paulo.

Subject: Re: Mokka and Geant4 9.1
Posted by musat on Thu, 31 Jan 2008 13:52:03 GMT
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Dear all,

I instantiated the new physics lists in the factory, leaving also
the possibility to compile against older Geant4 releases.

Cheers, Gabriel

Subject: lorentzTransformationAngle
Posted by rita on Fri, 22 Feb 2008 17:36:05 GMT
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Hello,

I am trying to simulate the crab crossing angle, but as soon as I include the command

/Mokka/init/lorentzTransformationAngle 7 mrad

in my steering file, Mokka gives segmentation fault.

I have tried with different detector model (D14CMOS_VTX, LDC01_05Sc and LDC00_03Rp) with the same result.

The inclusion of the command
/Mokka/init/globalModelParameter TUBE_crossing_angle 14.
does not change the result either.

I am grateful for any suggestion.

Thanks,

rita

Subject: Re: lorentzTransformationAngle
Posted by harderk on Fri, 22 Feb 2008 19:11:32 GMT
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This problem was already fixed by Frank, see Mokka version
mokka-06-06-pre01 .

Subject: Hcal Endcaps and Endcap Rings Gear description in SHcalSc01
Posted by ralf on Wed, 19 Mar 2008 17:05:47 GMT
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Hi

today at the optimization meeting it was mentioned that the radii of the endcap and the endcap
ring of the new SHcalSc01 are wrong (="too small") in the Gear output file.

Checking the code, I found that the output of Geant and Gear differ. In principle this seems to be
alright, since as I understood it the definitions of the radius of Gear and Geant differ: Geant takes
the distance from the center to a corner of the octagon as outer radius. Gear takes the distance of
the center to the middle of a side of the octagon. So they should differ by a factor of $\cos(\pi/8)$,
which is taken into account.

Bus I found in addition a factor of $\cos(\pi/9)$ for the Gear output of the outer radius in the code (line
476 for the endcaps and line 945 for the endcap rings in SHcalSc01.cc).

When working on the code, I didn't change this, because this was already present in SHcal03 (on
which SHcalSc01 is based) and I guessed that with this code the reconstruction already was
successfully tested. In fact, I didn't touch this part at all.

But now I wonder where this factor of cos(pi/9) comes from? For me it doesn't make sense, but maybe I miss something...

Does anybody know where it comes from or if it could be deleted?

Thanks in advance for any tips, hints and/or solutions
Ralf

Subject: Re: Mokka and Geant4 9.1
Posted by jeremy on Fri, 21 Mar 2008 22:46:50 GMT
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Is there a tagged Mokka release that is Geant4 9.1 compatible?

Subject: Mokka Makefile bug
Posted by jeremy on Fri, 21 Mar 2008 23:19:13 GMT
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I think that I found a bug in

Mokka/source/Kernel/GNUmakefile.common

This line is wrong because the location for the LCIO headers is incorrect.

        CPPFLAGS += -DLCIO_MODE -I$(LCIO)/include

It should be this.

        CPPFLAGS += -DLCIO_MODE -I$(LCIO)/src/cpp/include

Then everything runs correctly.

Seems like this would break everyone's build unless the headers are being installed into lcio/include by some external script, because LCIO doesn't do this as far as I know.

Subject: Re: Mokka Makefile bug
Posted by jeremy on Fri, 21 Mar 2008 23:56:05 GMT

<>

Found another bug.

The SIO lib directory is missing in GNUmakefile.common.

    EXTRALIBS += -L$(LCIO)/lib -llcio -lsio

Should be changed to this.

    EXTRALIBS += -L$(LCIO)/lib -L$(LCIO)/sio/lib -llcio -lsio

Not sure how Mokka is being built with these problems in the Makefile.

Are you using the cmake build of LCIO? I suspect that you are using cmake, and it is not using the same directory structure as the original ant build system.

Subject: Re: Mokka Makefile bug
Posted by harderk on Sat, 22 Mar 2008 07:10:36 GMT
<>

Hi Jeremy,
The Mokka Makefile works flawlessly with the cmake build of LCIO.
(At least if you remember to do "make install" rather than just "make".)
Cheers,
Kristian

Subject: Re: Mokka and Geant4 9.1
Posted by vogel on Wed, 26 Mar 2008 11:56:07 GMT
<>

Hi Jeremy,

the releases “mokka-06-04-p01” and later (i. e. “mokka-06-04-p02”, “mokka-06-04-p03”, “mokka-06-05”, and “mokka-06-05-p02”) should be compatible with Geant4 9.0, and they also contain the physics lists which were added to Geant4 then.

The interface of Geant4 9.1 hasn’t changed, so these Mokka releases can also be built

with 9.1. The latest physics lists, however, have only been added to the testing releases "mokka-06-06-pre01" and "mokka-06-06-pre02". The next stable release "mokka-06-06" should be out soon (i. e. definitely before the LHC starts).

Cheers,
Adrian

Subject: Re: Mokka Makefile changes
Posted by vogel on Wed, 26 Mar 2008 12:14:55 GMT
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Hi Jeremy,

just a tiny additional note: There has been a related discussion on the "ILD Mokka Discussion" mailing list some time ago, and there was no opposition against the adaption.

Cheers,
Adrian

Subject: New release Mokka 06-06
Posted by musat on Fri, 18 Apr 2008 10:10:26 GMT
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Dear friends,

A new Mokka release Mokka-06-06 is now available for download at

mokka.in2p3.fr

Cheers, Gabriel

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From release Notes:

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  I. Updating PhysicsListFactory
 II. Bug fix in RunManager class

III. Geometry fixes to Cern 2007 TB models
 IV. Density bug fix in TBhcal06
  V. Warning for bugs with SEcal02
 VI. New SEcal03 driver
VII. Improved FieldMap implementation in Field00
VIII. New Vertex Detector Geometries
 IX. New HCAL superdriver SHcalSc01 and new HCAL sensitive detectors
  X. Improvement of Ecal implementation for TB Cern 2006 models
 XI. Bug fix in VTX-Gear interface
XII. New steering command setting the MC Run Number of LCEvent
XIII. Bug fix in TrackSummary w/ SimulatorStatus - isCreatedInSimulation
XIV. New digital Hcal implementation
 XV. New SilC drivers

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Please note that:

1. This Mokka release co-works with Geant4 9.1 and CLHEP 2.0.3.2
   (but it is still compatible with previous Geant4 / CLHEP versions)
   LCIO v01-05, v01-06, v01-07, v01-08-01 or v01-09 (recommended),
   gcc 3.2.3, gcc 3.4.5 or
   gcc 4.1.1, SL3 or SL4, optionally with Gear v00-08-02

 ==
===================
 I. Updating PhysicsListFactory

   The PhysicsListFactory can now instantiate the new physics lists that
   became available with Geant4 9.1 : FTFP_BERT, QGSC_BERT, QGSP_DIF,
   QGSP_BERT_DIF, QGS_BIC and FTF_BIC.

   A macro was added to test for the Geant4 release in order to allow
   previous Geant4 releases to be used.

 II. Bug fix in RunManager class

   A fix was made in the method RunManager::RunInitialization() that is
   aimed to avoid a memory leak while repeating many times the command

   /run/beamOn

The fix was also checked when running Mokka in visualization mode.

III. Geometry fixes to Cern 2007 TB models

Some corrections were added to the drivers TBcatcher06 and TBmuoncount03
in order to remove overlaps between TCMT and Hcal when using nonzero
configuration angles.
A bug in the definition of the hit position in all scintillators drivers
have also been corrected. Now all the hits are generated in the correct
(x,y) position.

IV. Density bug fix in TBhcal06

The density of the PCB (Printed Circuit Board) material FR4 was corrected to
be 1.7*g/cm3 (instead of the old incorrect value of 1.025*g/c,3). The corrected
value was taken from http://pcba10.ba.infn.it/temp/ddd/ma/materials/list.html.

V. Warning for bugs with SEcal02 and its sensitive detector SEcalSD02

The released SEcal02 driver has known bugs concerning the hits in the end caps.
It's not fixed, as we have to insure backward compatibility with the models using
it (LDC01_05Sc and LDCPrime_01Sc). Users should avoid using these models.

VI. New SEcal03 driver and sensitive detector SEcalSD03

The new SEcal03 driver and its sensitive detector fix the known bugs with
SEcal02 and SEcalSD02. Moreover, the Si cells in wafers are now forced to
be squared. The Ecal_cells_size parameters is understood as a hint.
Depending on the Ecal_Barrel_halfZ, Ecal_barrel_number_of_towers,
Ecal_lateral_face_thickness and a lot of other parameters, the SEcal03
driver adjust the cell size to have a integer number of identical cells
in theta Z direction. Then, it forces the same value for the X direction.
The same values are used for the end cap slabs.

The new SEcal03 driver fix also another bug, which let to not propagate
correctly the z_begin value for the LCal01 driver.

VII. Improved FieldMap implementation in Field00

FieldMap implementation was changed in class Field00 and thus
the CPU time was reduced by about 2.5 - 3 %.

VIII. New Vertex Detector Geometries

Three new Vertex Detector geometries VXD03, VXD03_sensin and VXD04 are
implemented in this release. These geometries are realistic and flexible
descritpion of :
  - 5 layer LDC like vertex detector (VXD03)
- 5 layer LDC like vertex detector with sensors placed at the bottom
       of the support ladder (VXD03_sensin)
- 3 double layer GLD like vertex detector (VXD04).

These three geometries are based on the ladder description for LOI decided
by the wordwide VTX community. Nevertheless these geometries are very
flexible thanks to free parameters that can be set in the Mokka steering
file.

The user can change on fly :
    - The radius of each layer.
 - the 5 layers can be modified for the VXD03 and the
  VXD03_sensin geometries
 - the 3 double layers radius and the gap between paired layer
  for the VXD04 geometry
     - The thickess, and the kind of material of the ladder support
- The length, the width and the thickness of the silicon active part
- Presence or not of electronic and the end of the ladder and/or/not
   side band structure along the ladder
 - thickness and length of the ladder end electronic
 - thickness and width of side band structure
- The side band structure can be swicth on as a sensituve part of the
 detector
- The VXD is surounded by a cryostat or not.
  The optimal number of ladder per layer are calculated automatically when
  radius and width of the layer are changed.

The following list give the different parameters that can by modified in
the steering file.

Common parameters for all the VXD geometries :

VXD_support_ladder_thickness
VXD_support_ladder_material

VXD_active_silicon_thickness

VXD_cryostat_option

VXD_side_band_electronics_thickness
VXD_side_band_electronics_width
VXD_side_band_electronics_option

VXD_end_ladd_electronics_option
VXD_end_ladd_electronics_half_length
VXD_end_ladd_electronics_thickness

VXD_active_side_band_electronics_option

Specific parameters for the VXD03 and VXD03_sensin:

VXD_width_r1 (this is the width of the silicton active part)
VXD_width_r2
VXD_width_r3
VXD_width_r4
VXD_width_r5

VXD_length_r1 (this is the length of the silicon active part)
VXD_length_r2
VXD_length_r3
VXD_length_r4
VXD_length_r5

VXD_inner_radius
VXD_radius_r2
VXD_radius_r3
VXD_radius_r4
VXD_outer_radius

Specific parameters for the VXD04 :

VXD_width_r1 (this is the width of the silicton active part)

VXD_width_r3
VXD_width_r5

VXD_length_r1 (this is the length of the silicon active part)
VXD_length_r3
VXD_length_r5

VXD_inner_radius
VXD_radius_r3
VXD_radius_r5

VXD_layer_gap

Furthermore, users have to use the TUBE02 description of the beampipe
because the modification of the inner most layer will modified the radius
of the beampipe. Indeed the inner most most layer is mechanically linked to
the beampipe.
The distance of the inner most layer and the beampipe is fixed at 1 mm. The
use can also modified the beampipe thickness in the steering file using the
parameter : TUBE_central_thickness.

IX. New HCAL superdriver SHcalSc01 and new HCAL sensitive detectors

SHcalSc01 is a new HCAL superdriver containing only the
scintillator option. An additional gap is introduced in the middle of the staves,
in order to get a little bit more realistic description of the detector.
As a consequence, the HCAL layers are divided into 2 halves (in the left and right
side of a stave). The layers have now an aluminium support. There are also 4 pointing
cracks in the endcaps and in the endcaps rings. The Hcal_cells_size is now by default 3.
In the barrel, a special algorithm is applied to deal with fractional cells at the
edges of a layer. The algorithm is applied in the barrel's sensitive detector
(SDHcalBarrel) and takes care that the fractional tiles always have the size
> Hcal_cells_size/2 and < Hcal_cells_size. The endcaps still have integer cells,
with problems at the edges.

New parameters are introduced:
Hcal_chamber_thickness = thickness of the HCAL chambers; default value 6.5 mm
Hcal_layer_support_length = x-length of the HCAL layer support in the barrel;
                  default value 5 mm
Hcal_layer_air_gap = gap between layer support and scintillator in the HCAL barrel;

default value 2 mm

Hcal_middle_stave_gaps = gap in the middle of the HCAL barrel staves;
    default value 3 mm

Hcal_apply_Birks_law =1 apply Birks law to the HCAL scintillator response, =0 do not
        apply Birks law; default value 1.
 This parameter is given as a parameter to the constructor of
 the HCAL sensitive detectors.

 New sensitive detector classes:
 - SDHcalBarrel: HCAL barrel sensitive detector, contains fractional tile algorithm
        and applies Birks attenuation law to the energy deposition, if
   Hcal_apply_Birks_law is 1
 - SDHcalEndcaps: HCAL endcaps and endcaps rings sensitive detector,
     applies Birks attenuation law to the energy deposition, if
   Hcal_apply_Birks_law is 1

 New class: the G4 class G4EmSaturation was provided by Vladimir IVANTCHENKO (CERN),
 and it is used for the Birks law. It should come with the next GEANT4 release. Untill
 then, we just keep a copy of it.

 A new encoder: Encoder32Hcal was necessary, since we needed an additional bit for
 the stave id. The stave id is now 16 instead of 8. An odd stave id (1, 3, ...)
 indicates that we have a hit in the left half of a stave, whereas an even stave id
 (2, 4, ...) indicates a hit in the right part of a stave. The bits available for the
 layer id were also increased by 1, in the idea that somebody would like to go later
 to a larger number of HCAL layers (>64), for testing purposes.

 X. Improvement of Ecal implementation for TB Cern 2006 models

 Independent Y shifts of the 2 Si layers of each slab were implemented in the
 new driver Proto04_02. This driver is connected to 2 new DB's
 (ProtoCern0806_02 and ProtoCern1006_02) having a new table 'si_layers'
 that stores the Y shifts of all layers (maximum allowed shift is +/- 0.2 mm)

 Usage within a full TB model:
 /Mokka/init/detectorModel TBCern1006_01_dchxy_new
     /Mokka/init/EditGeometry/rmSubDetector ProtoCern1006_01
     /Mokka/init/EditGeometry/addSubDetector ProtoCern1006_02

 Usage of Ecal alone:
     /Mokka/init/subDetector ProtoCern0806_02

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XI. Bug fix in VTX-Gear interface
The definition of phi0 and offset have been clarified in gear v00-08-02:
phi0: azimuthal angle of (outward pointing) normal of first ladder in layer
offset: shift of every ladder in the direction of increasing phi

modified VXD01.cc, VXD02.cc, VXD03.cc , i.e. also older models will create a
slightly different gear file (phi0 and offset)

-> use gear v00-08-02 or higher for everything to be consistent

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XII. New steering command setting the MC Run Number of LCEvent

A new steering command was added to set the Monte Carlo run number
of every LCEvent:

/Mokka/init/mcRunNumber

This is different than the previously created Calice specific command:

/Mokka/init/dataRunNumber

that was aimed to write the number of the Test Beam run corresponding
to the simulation run.

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XIII. Bug fix in TrackSummary w/ SimulatorStatus - isCreatedInSimulation

ensure that the bit LCIO::BITisCreatedInSimulation in the SimulatorStatus
is only set if the MCParticle actually has been created in Mokka/geant4

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XIV. New digital Hcal implementation

   Thanks to Emmanuel Latour, a new implementation of Digital Hcal is
   available as sub-detector SHcal04. Only barrel modules are changed,
   the EndCaps and EndCapRings are the same as in previous models.
   A detailed description can be found at:

     http://polzope.in2p3.fr:8081/MOKKA/detector-models/ldc/DHCAL doc.pdf

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XV. New SilC drivers

   Thanks to Valeri Saveliev, all SI inner track devices have a new
   implementation folowing the SilC designs. It concerns the Sit, the
   Ftd, the Etd as well the first implementation for the Set device.
   It concerns the SSit02, SFtd04, SEtd01 and SSet01 super drivers
   which use the sit02, ftd01, etd01 and set01 new basic drivers.

Subject: Changes of the names of LDC models
Posted by musat on Fri, 18 Apr 2008 12:53:34 GMT
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Dear friends,

People that had contributed to the last two Mokka LDC models decided to rename them as
follows:

- rename LDC01_06Sc_test as LDC01_06Sc_p01

and

- rename LDCPrime_02Sc_test as LDCPrime_02Sc_p01

leaving both "unstable".

The DB models03 on pollin1 was updated with respect to these decisions.

Cheers, Gabriel

Subject: Lorentz trasformation angle again
Posted by rita on Thu, 15 May 2008 14:57:24 GMT
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Hello,

I have a question concerning the usage of the /Mokka/init/lorentzTransformationAngle command
in Mokka-06-06
The model LDCPrime_02Sc_p01 include the parameter
ILC_Main_crossing_angle = 14 mrad.

I guess I should still use
/Mokka/init/lorentzTransformationAngle 7 mrad
in order to boost the generated particles, but could, please, someone confirm that?

Thank you,

rita

Subject: Re: Lorentz transformation angle again
Posted by NormanGraf on Thu, 15 May 2008 15:01:40 GMT
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Hello Rita,
 You are correct. The crossing angle refers to the combined angle between the beamlines. You
should only boost by half that amount.
Norman

Subject: Re: Lorentz trasformation angle again
Posted by vogel on Thu, 15 May 2008 15:12:44 GMT
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Idle> help /Mokka/init/lorentzTransformationAngle

Command /Mokka/init/lorentzTransformationAngle
Guidance :
Specify the angle for the Lorentz transformation of primary particles.
This angle corresponds to half the beam crossing angle.

Parameter : Angle
 Parameter type : d
 Omittable   : False

Parameter : Unit
 Parameter type : s
 Omittable   : True
 Default value   : mrad
 Candidates   : rad mrad sr deg radian milliradian steradian degree

You are absolutely right!
Cheers, A

Subject: Re: Lorentz trasformation angle again
Posted by rita on Thu, 15 May 2008 16:10:38 GMT
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Thank you!

Subject: New release Mokka 06-06-p01
Posted by musat on Wed, 21 May 2008 11:15:39 GMT
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Dear friends,

New release Mokka 6.6.p01 is available for download at the usual address: mokka.in2p3.fr.

Please note that the last two LDC/LDCPrime models have been
renamed to LDC01_06Sc and LDCPrime_02Sc and their status was set
to 'frozen'.

Cheers,
Gabriel

From Release Notes:

=== ==
                    New tag mokka-06-06-p01

What is new in this Mokka release
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  I. New steering commands available to change FieldManager parameters

  II. New FTD self scaling FTD Driver SFtd03

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Please note that:

1. This Mokka release co-works with Geant4 9.1.p02 and CLHEP 2.0.3.2
   (but it is still compatible with previous Geant4 / CLHEP versions)
   LCIO v01-05, v01-06, v01-07, v01-08-01 or v01-09 (recommended),
   gcc 3.2.3, gcc 3.4.5 or
   gcc 4.1.1, SL3 or SL4, optionally with Gear v00-08-02

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  I. New steering commands available to change FieldManager parameters

  Two new steering commands were implemented to change the parameters
  DeltaIntersection and DeltaOneStep of the FieldManager:
  They can be used in the steering file, like, for example:

  /Mokka/init/userDeltaIntersection 3e-5 mm
  /Mokka/init/userDeltaOneStep 3e-4 mm

  II. New FTD self scaling FTD Driver SFtd03

  It is a self scaling driver where the z positions of the disks are set
  relative to the length of the TPC and the inner radius of the disks are

calculated as a function of the beamtube opening angle.
The TUBE_opening_angle is used, though this does not affect the actual
beam tube in Mokka, as that does not take this value as a parameter,
nor does it attempt to set it. The actual opening angle of the section
of the beam tube lying directly under the FTD in the Mokka model
LDC01_06Sc has a tangent of 0.07876. As the value of TUBE_opening_angle
will be set to 0.092 the FTD will not suffer any geometric overlap with
the beam tube and the inner radii will be of the desired size, not a
great solution but at least safe for now.

There are values for cable shield thickness, cable thickness and
outer support cylinder thickness in the Database.

Subject: Mokka warning: track killed due to high number of steps
Posted by lucaci on Fri, 06 Jun 2008 10:54:54 GMT
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Hello,
I'm producing some events with the LDCPrime_02Sc model,
and I've noticed a Mokka warning:

MOKKA WARNING: number of steps > 100000, this track will be killed right now.

Is this a reason to worry?

Thank you,
Angela

Subject: Re: Mokka warning: track killed due to high number of steps
Posted by mora on Mon, 09 Jun 2008 13:42:09 GMT
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Hi Angela,

Mokka kills tracks which number of steps > 100000 to avoid waisting CPU time with low energy
charged particles looping into TPC.

Cheers,
Paulo.

Hello,
by default, the HCAL is build with 48 layers. However, in principle, it is possible to increase this number to 64. But this only in principle, since if one tries to increase it, when building the yoke, there is not enough place for building the plug. The error message that you get with:

/Mokka/init/globalModelParameter Hcal_nlayers 49

is:
==========> MOKKA ABORTING <============
Yoke03: Plug thickness negative or thinner then 5 layers of rpc !
 Check the geometry! Sorry for abort :(

I've been looking around to see where this comes from. It seems that the z-start of the yoke endcap does not take into account if we increase the HCAL layers or not. It is set in SCoil01.cc to be:

$zStartEndcap = z\_limit = TPC\_Ecal\_Hcal\_barrel\_halfZ + Coil\_extra\_size + 350 = 4200$

In my opinion, this z does not include the HCAL endcaps, which have the same number of layers as the barrel, that is Hcal_nlayers. For whatever reason (probably due to hardcode number of 350), this works for the default 48 layers, but not for more (or for less layers, but thicker).

As a consequence, the plug thickness, which is defined in Yoke03.cc as:

$plug\_thickness = zStartEndcap - HCAL\_z - Hcal\_plug\_gap$

is too thin (not enough for 5 layers).
zStartEndcap is set to 4200 in SCoil00.cc, whereas HCAL_z changes , as it should, with the number of HCAL layers, and Hcal_plug_gap is constant.

Can anybody tell me which is the correct solution for increasing the HCAL layers, such that the Yoke does not crash?

Thank you in advance,
Angela

Subject: Re: HCAL number of layers and yoke with plug
Posted by mora on Tue, 10 Jun 2008 15:59:33 GMT
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Hi Angela,

If you don't need the muon chambers, and probably it's true the time being, a quick solution is just to drop the yoke. You can do it easily adding the line

/Mokka/init/EditGeometry/rmSubDetector yoke03

to your steering file. Of course a better solutions should be provided in the future.

Cheers,
Paulo

Subject: Setting pre-init variables
Posted by jabernathy on Mon, 23 Jun 2008 08:31:46 GMT
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Hello all,

I was trying to execute the following commands in my macro file:

/Mokka/init/lcioWriteMode WRITE_NEW
/Mokka/init/lcioFilename last_run.slcio

but I keep getting an error when the macro file is executed:

***** Illegal application state </Mokka/init/lcioWriteMode WRITE_NEW> *****

Delving into the source code reveals that these commands are declared to be run in the phase G4State_PreInit.

Using the command line the lcio filename can be specified with the -l command but I couldn't find an option for changing the lcio write mode.

What is the proper method of executing pre-init commands?

Thanks in advance

Subject: Re: Setting pre-init variables
Posted by musat on Mon, 23 Jun 2008 08:58:29 GMT
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Hi,

The commands you showed are steering commands, that should be placed in a steering file (say 'mokka.steer'), that should be used like this:

Mokka mokka.steer

(these commands shouldn't be placed inside a macro file).

The steering file is processed at the beginning, before the detector geometry is built. The macro file commands are executed after that.

Cheers, Gabriel

Subject: Re: Setting pre-init variables
Posted by jabernathy on Tue, 24 Jun 2008 21:22:12 GMT
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That worked perfectly, thanks!

Subject: IcioDetailedTRKHitMode
Posted by rita on Wed, 09 Jul 2008 17:27:40 GMT
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Hello,

I am quite puzzled from an effect I see in my simulations.

I used the command
/Mokka/init/lcioDetailedTRKHitMode VXDCollection
in order to get the distance travelled in the sensitive part of VXD .

I use Mokka0606 and detectorModel LDCPrime_02Sc_p01, where each layer of the VXD is
defined with a sensitive thickness of 50um of silicon (checked to be correct in the Gear file).

I generated high energy muons at theta=90 degrees and uniformly in phi. The "minimum"
pathlength I get is 100um and not the 50um I should expect. Additionally I get also some percent
of the events with very short pathlength, ranging from 0 to 100um, even for events which are
primaries, thus should in principle cross all the sensitive volume of the VXD layer.

has anyone an idea of what that is?

Thank you for the help,

rita

Subject: Re: lcioDetailedTRKHitMode
Posted by piotrek on Thu, 04 Sep 2008 12:29:42 GMT
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Hi,

This is a bug in TRKSD00 class. The last step length is added twice in UpdateHit() and in
DumpHit() to a Mokka-hit-length. If there is only one Geant-step in a layer then Mokka-step-lenght
= 2*Geant-step-length. I have written info about it in Mokka "issues tracker":
http://polzope.in2p3.fr:8081/MOKKA/issues-tracker/4

Best regards,
Piotr Niezurawski

Subject: Scheduled shutdown at LLR
Posted by mora on Fri, 07 Nov 2008 14:40:25 GMT
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Dear all,

We'll have a scheduled shutdown for electric maintenance on our machine's room, starting the next Sunday 9th November at 20:00 till Monday 10th, 16:00. It includes the Mokka cvs and DB servers.

Sorry for this inconvenience,
Paulo.

Subject: New release Mokka 06-07
Posted by musat on Thu, 13 Nov 2008 16:57:46 GMT
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Dear friends,

New release Mokka 6.7 is available for download at the usual address: mokka.in2p3.fr.

Cheers,
Gabriel

From Release Notes:

```
============================================================= ==
                New tag mokka-06-07
                ==================
```

What is new in this Mokka release
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  I. New detector model ILD_00
    I.1) New HCAL superdriver SHcalSc02
    I.2) New LHcAL superdriver SLcal01
    I.3) New LCAL superdriver SLcal02
    I.4) New implementation for Yoke and coil
    I.5) New Bcal superdriver SBcal01 using BeamCal00 and BeamCalSD00
  I.6) New FTD self scaling driver
  I.7) New SIT self scaling driver
  I.8) New SET self scaling driver
  I.9) New ETD self scaling dirver

  II. Bug fix in TRKSD00

III. New TB models for Cern 2007 and FNAL 2008
 IV. moved CGAGearDistanceProperties and CGAGearPointProperties
    from gear to Mokka (libMokkaGear.a)
  V. fix for reading problematic stdhep files
 VI. new command /Mokka/init/IcioEventParameter
    to be used for cross section and processID

 ==
==================

Please note that:

1. This Mokka release co-works with Geant4 9.1.p02 and CLHEP 2.0.3.2
   (but it is still compatible with previous Geant4 / CLHEP versions)
   LCIO v01-10-03 (needed !!)
   gcc 3.2.3, gcc 3.4.5 or
   gcc 4.1.1, SL3 or SL4, optionally with Gear v00-11

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   I. New detector model ILD_00

   A new model 'ILD_00' was created for the ILD simulation
   baseline reference detector. It is based on the detector parameters
   discussed at Cambridge and in the current DRAFT ILDReference document
   (www.ilcild.org).

   One needs this version of Mokka and a GEAR version v00-11 to use
   this model (gear now has parameters for the coil, lhcal and the Yoke).

   The following detector drivers are updated or new implementation:

 I.1) New HCAL superdriver SHcalSc02 (Angela Lucaci)

 It's a new HCAL superdriver with modified endcaps as in
  the Tesla design, that is with a square hole in the middle,
 and cracks along the square borders. The basic endcap stave
 is a union of a box and a right wedge.

 The modified geometry needed a new sensitive detector class
 for the HCAL endcaps: SDHcalEndCapTesla.

Note that this is used only for the endcaps. The HCAL rings still use the old class SDHcalEndCap.

In the endcaps, the HCAL layers are perpendicular to the z-axis. In the x-y plane, the virtual tiles are square, with the dimensions 30x30 mm^2. Hits in tiles which are not fully contained in the sensitive volume are rejected. The counting of the I and J cell coordinates starts from the lower left corner of the stave, in the x-y plane. The notation of the staves is the same as in the old geometry (for more details, see http://www-flc.desy.de/lcnotes/notes/LC-TOOL-2008-001.pdf)

I.2) New LHcal superdriver SLHcal01

This new super driver implements the LHcal as a parallelepiped volume, with size = 330.6 mm, 525 mm long. It's placed inside the Hcal end cap (30 mm after the end cap entering boundary). Its central hole is a cylinder which is not centered, but which should follow the crossing angle to avoid overlapping the beam pipe.

The LHcal has 40 W layers of 10 mm, behind each one a Si sensitive layer almost as the Ecal rings. For this reason SLHcal01 reuses the same sensitive detector implemented for the Ecal rings. The only difference is that the SLHcal01 has not a pre-shower layer.For this reason SLHcal01 depends on the Ecal slab parameters, as it's almost the same technology.

SLHcal01 depends on the following global parameters, with the current values for the ILD_00:

Ecal_Alveolus_Air_Gap = 0.25
Ecal_Si_thickness = 0.5
  Ecal_Slab_PCB_thickness = 0.8
  Ecal_Slab_copper_thickness = 0.2
  Ecal_Slab_glue_gap = 0.1
  Ecal_Slab_ground_thickness = 0.05
  Ecal_Slab_shielding = 0.15
  Ecal_fiber_thickness = 0.2

Hcal_endcap_center_box_size = 700.0
Hcal_endcap_zmin = 2670.7
LHcal_Electronics_space = 19.4
LHcal_cell_size = 10
LHcal_inner_radius = 93
LHcal_lateral_face_thickness = 10
LHcal_nlayers = 40
LHcal_radiator_thickness = 10
LHcal_zmin_displacement = 30
TUBE_crossing_angle = 14

Currently SLHcal01 exports the following parameters, with the
    current values for the ILD_00:
LHcal_zend = 3225.7

I.3) New LCAL superdriver SLcal02 (B. Pawlik)

SLcal02 superdriver does not have database, only parameters.
For actual build of LCAL LumiCalX subdriver is used.
SLcal02 sets the z-position of LCAL (Lcal_z_begin parameter)
according to the value of the Ecal_endcap_zmax. It also assures that
outer radius of LCAL (Lcal_outer_radius parameter) is consistent with
inner radius of ECAL endcap plug. It checks whether lenght of LCAL
fits into space in ECAl endcup.
Parameters known to SLcal02 are :

name	default value	comment
------	--------------	
Lcal_z_begin	3050 mm	
Lcal_inner_radius	80.0 mm	
Lcal_outer_radius	195.2 mm	
Lcal_n_layers	30	
Lcal_phi_offset	0. deg	
Lcal_tungsten_thickness	3.5 mm	thickness of absorber
Lcal_support_thickness	0.2 mm	fanout,interconnection plane thickness
Lcal_silicon_thickness	0.32 mm	silicon sensor
Lcal_layer_gap	0.25 mm	clearance between LCAL planes
Lcal_nstrips_theta	64	radial segmentation
Lcal_nstrips_phi	48	number of phi sectors

SLcal02 needs also following 'exetrnal' parameters normally set SEcal03
superdriver.

Ecal_Lcal_ring_gap   - clearance between LCAL and ECAL endcap PLUG
Ecal_endcap_zmax
Ecal_endcup_zmin
Ecal_endcap_plug_rmin
ILC_Main_Crossing_Angle

The default values of parameters above, can be changed by user at run
time with the card:

    /Mokka/init/globalModelParameter "parameter_name" value

NOTE: Functionality of changing Lcal_z_begin, and Lcal_outer_radius
         at run time is limited in case ECAL is build.

I.4) New implementation for Yoke and Coil (F. Gaede)
   SCoil02.cc:
      - replace hardcoded values by parameters:
     Hcal_Coil_additional_gap, Coil_Yoke_radial_clearance and
   Coil_Yoke_lateral_clearance

        Yoke04.cc
      - added barrelEndcapGap, gear parameters, made barrel and endcap
         same thickness, made plug insensitive
 - changed outer r of yoke plug to be aligned with hcal endcap

I.5) New Bcal superdriver SBcal01 (A.Hartin)

   - first implementation, code from Fcal collaboration,
     * position of sensitive layer corrected
    * several constants moved to beamcal table
    * superdriver by A. Sapronov, A. Rosca and A. Popescu
    * implemented in Mokka by A. Hartin and S. Aplin, Oct 2008

I.6) New FTD self scaling driver SFtd04.cc (S. Aplin)

 Implementation of a self scaling 7 disk FTD first 3 Disks are Si-pixel technology
 last 4 Disks are Si-strip technology Support material Kapton

All disks:
Dimentions and co-ordinates are specified for the sensitive layer, support disks are built on to these inner_radius = (beamTubeRadius + beamTubeClearance)

First Disk:
z defined by distance from end of VTX layer 3 outer r defined by radial difference to SIT layer 1

Second Disk:
z defined relative to TPC half-length: to ensure positioning with SIT set these numbers to the same value in DB outer r defined by radial difference to SIT layer 1

Third Disk:
z defined relative to TPC half-length: to ensure positioning with SIT set these numbers to the same value in DB outer r defined by radial difference to SIT layer 1

Fourth, Fifth and Sixth Disk: z defined relative to TPC half-length outer r defined by gap between TPC inner radius and FTD disks

Last Disk:
z defined by distance from front of ECal Endcap outer r defined by gap between TPC inner radius and FTD disks

The energy threshold to produce a hit has been set at 20% of a MIP for the thinnest disk.

Parameters Set in Model Parameter DB Table:
TPC_Ecal_Hcal_barrel_halfZ
Ecal_endcap_zmin
TPC_inner_radius
VXD_length_r3

Parameters shared with other drivers:
SSit03:SIT1_Half_Length_Z
SSit03:SIT2_Half_Length_Z
SSit03:SIT1_Radius
SSit03:SIT2_Radius
TubeX01:TUBE_IPOuterTube_end_z
TubeX01:TUBE_IPOuterTube_end_radius
TubeX01:TUBE_IPOuterBulge_end_z
TubeX01:TUBE_IPOuterBulge_end_radius

I.7) New SIT self scaling driver SSit03.cc (S. Aplin)

The radius of the sensitive layer of the outer layer is defined by the distance to the TPC inner radius. The radius of the sensitive layer of the inner layer is defined by the relative position between the SIT outer layer and the VTX outer layer.
Half-lengths in z are defined relative to the TPC ECal barrel length

I.8) New SET self scaling driver SSet02.cc (S. Aplin)

The SET is composed of two support backed silicon layers.

The radius of the outer layer is specified by the distance to the min Radius of the ECal Barrel. The radius of the inner layer is specified by the radial distance between the two layers. Both layers have the same Half-length as the TPC

I.9) New ETD self scaling dirver (S. Aplin)

The inner radius of disks defined by the radial clearance between the ETD and ECal-EndCap Plug outer radius of disks defined by radial difference from the TPC outer radius z positions are given by the distance between the last ETD sensitive layer and the ECal-EndCap face plus layer separation and thickness.

II. bug fix in TRKSD00

Piotr Niezurawski noticed that the sensitive detector implemented in class TRKSD00 had a bug, as described by him at:

http://polzope.in2p3.fr:8081/MOKKA/issues-tracker/4

This class, originally designed to work with the first versions of the TPC, was then adopted by many other sub-detectors: ETD, FTD, SET, SiT, VXD.

Piotr made a correction of this bug, the class was renamed to TRKSiSD00 and the necessary corrections were made to all VXD drivers so that they now use this new class.

III. New TB models for Cern 2007 and FNAL 2008

We have 3 new models for TBCern 2007, that have the new DCHs implementation

made by Fabrizio Salvatore (like the Desy/FNAL DCHs, i.e. with one single
hit collection and each chamber sub-divided in two halves, one for x-hits
and one for y-hits). Their names are:

 TBCern07_dchxy_01 (with the ideal Ecal),
 TBCern0707_dchxy_01 (with the Ecal in Jully 07 config), and
 TBCern0807_dchxy_01(with the Ecal in the August 07 config).

An implementation was made for the TB setup at FNAL, the first period
of '08, except the wire chambers and the detectors before them.
The model name is   TBFnal0508

IV. moved CGAGearDistanceProperties and CGAGearPointProperties
   from gear to Mokka (libMokkaGear.a) (F.Gaede)

  moved the code from GEAR to Mokka in order to remove circular dependency

V. fix for reading problematic stdhep files (M.Berggren, F.Gaede)

Fix in HepLCIOInterface for reading problematic stdhep files with FSR on mu and tau leptons.
These files caused double counting of the leptons in older versions of Mokka.
The old behaviour can be restored with:

  /Mokka/init/FixStdHepLeptonFSR false

Note: the generator status of 'documentation' type particles that are not presented to geant4
is increased by 100, e.g if the particle had genstat 2 it will have genstat 102 after processing

VI. new command /Mokka/init/lcioEventParameter (F.Gaede)

 this command allows to specify constant parameters in the steering file that are
 then added to every LCIO event, eg.

 /Mokka/init/lcioEventParameter float CrossSection_fb 1234.56
 /Mokka/init/lcioEventParameter string Process e3e3h_250_ep+1.0_em-1.0
 /Mokka/init/lcioEventParameter int ProcessID 42

Subject: problems with mokka in v01-04
Posted by iglesias on Wed, 03 Dec 2008 15:53:42 GMT
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Hello:
I have installed the release v01-04 sucessfully except the mokka package. When I run the script
installation I obtain the next error message:
****************************** Installing software ******************************

 ##
###################
Compiling Mokka version mokka-06-06-p03...
 ##
###################

   ----- adding additional commands to build_env.sh :

   ----- adding additional command to build_env.sh . ${G4ENV_INIT}

In your environment you have the G4WORKDIR=/mnt/data2/ilcsoft/ilcinstall_prueba/ilcinstall/my
_v01-04/Mokka/mokka-06-06-p03
make[1]: Entering directory `/mnt/data2/ilcsoft/ilcinstall_prueba/ilcinstall/my_v01-04/M
okka/mokka-06-06-p03/source/Geometry/Calice'
make[1]: Nothing to be done for `all'.
Using granular libraries ...
Linking Mokka ...

 /mnt/data2/ilcsoft/ilcinstall_prueba/ilcinstall/my_v01-04/Mo
kka/mokka-06-06-p03/tmp/Linux-g++/Mokka/exe/Mokka.o: In function
`G4VisExecutive::RegisterGraphicsSystems()':
Mokka.cc:(.text+0x395): undefined reference to `G4RayTracerX::G4RayTracerX()'
collect2: ld returned 1 exit status
make[1]: *** [/mnt/data2/ilcsoft/ilcinstall_prueba/ilcinstall/my_v01-04/M
okka/mokka-06-06-p03/bin/Linux-g++/Mokka] Error 1
make[1]: Leaving directory `/mnt/data2/ilcsoft/ilcinstall_prueba/ilcinstall/my_v01-04/M
okka/mokka-06-06-p03/source/Kernel'
make: *** [all] Error 2

*** ERROR in module [Mokka]: Required file not found:
['/mnt/data2/ilcsoft/ilcinstall_prueba/ilcinstall/my_v01-04/
Mokka/mokka-06-06-p03/bin/Linux-g++/Mokka']

And If I see in the /ilcinstall/my_v01-04/Mokka/mokka-06-06-p03/ directory it seems thar all the files have been installed except the Mokka file in the /bin/Linux-g++/ directory.

What is happening?

Regards

Carmen
P.D: In my script I put:
ilcsoft.install(Mokka(ilcPath + "v01-04/Mokka/mokka-06-06-p03"))
and I have also tested with another options, (but I obtain the same error message)
 ilcsoft.install(Mokka("mokka-06-06-p03"))

Subject: Any tools for modifying the Geometry database?
Posted by fengy on Fri, 12 Dec 2008 04:45:11 GMT
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Hi,

I am confused by the database used by Mokka.

Is tweaking the bare database schema and entries the only way to modify the geometry of a given detector?

How do I add new detector designs into my local database?

If I'll have to do it by hand, are there any documents about the database? i.e, an ER diagram for the entire databases?

Thank you.

Yu

Subject: Re: Any tools for modifying the Geometry database?
Posted by mora on Fri, 12 Dec 2008 09:00:33 GMT
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Hi Yu,

We are sorry, a good Mokka documentation is really missing. The time being we are putting all our efforts on developing the detectors models simulated with Mokka. Anyway you can find a lot of useful information concerning how to add a new detector design into your local database ate the excellent Web page developed by Adrian Vogel at address

http://www.desy.de/~vogel/

I hope it could help you.

Cheers,
Paulo.

Subject: Re: problems with mokka in v01-04
Posted by engels on Wed, 07 Jan 2009 09:36:04 GMT
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Hi Carmen,

the problem seems to be some incompatibility between the Mokka and the Geant4 versions..
What Geant4 version are you using?

Are you using the desy afs installation @ /afs/desy.de/group/it/ilcsoft/v01-04 ?

Cheers,
Jan

Subject: Re: problems with mokka in v01-04
Posted by iglesias on Thu, 08 Jan 2009 09:52:45 GMT
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Hello:
This is that i have put in my installation script about Geant4:

Geant 4

ilcsoft.link(Geant4 (ilcPath + "geant4/9.1"))
ilcsoft.module("Geant4").env["G4ENV_INIT"] = ilcPath + "geant4/env_9.1.sh"

Is that correct?

Carmen

Subject: Re: problems with mokka in v01-04
Posted by engels on Thu, 08 Jan 2009 14:56:08 GMT
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Hi Carmen,

yes, that should be correct if you are using sl3 or sl4 machine..

could you try erasing your Mokka directory
(/mnt/data2/ilcsoft/ilcinstall_prueba/ilcinstall/my_v01-04/M okka/) and rerun ilcsoft-install with the
same configuration file to check if the error still persists?

Cheers,
Jan

Subject: Re: problems with mokka in v01-04
Posted by iglesias on Mon, 12 Jan 2009 13:03:29 GMT
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Hello:
If I erase the mokka directory and rerun ilcsoft-install I obtain at the end, the next error message:

[iglesias@fpmac116 ilcinstall]$ ./ilcsoft-install -i my_install_v01-04.cfg

***************************** Starting installation *****************************

+ Read configuration file [my_install_v01-04.cfg]

+ Initialize modules...

+ Check for previous installations...

  + [/mnt/data2/ilcsoft/ilcinstall_prueba/ilcinstall/my_v01-04/l cio/v01-10-01] installation status: OK - set to use mode
  + [/mnt/data2/ilcsoft/ilcinstall_prueba/ilcinstall/my_v01-04/M arlin/v00-10-03] installation status: OK - set to use mode
  + [/mnt/data2/ilcsoft/ilcinstall_prueba/ilcinstall/my_v01-04/C EDViewer/v00-06] installation status: OK - set to use mode
  + [/mnt/data2/ilcsoft/ilcinstall_prueba/ilcinstall/my_v01-04/L CFIVertex/v00-02-07-dev] installation status: OK - set to use mode
  + [/mnt/data2/ilcsoft/ilcinstall_prueba/ilcinstall/my_v01-04/S iliconDigi/v00-04-01] installation status: OK - set to use mode
  + [/mnt/data2/ilcsoft/ilcinstall_prueba/ilcinstall/my_v01-04/O verlay/v00-02] installation status: OK - set to use mode
  + [/mnt/data2/ilcsoft/ilcinstall_prueba/ilcinstall/my_v01-04/E utelescope/v00-00-06] installation status: OK - set to use mode
  + [/mnt/data2/ilcsoft/ilcinstall_prueba/ilcinstall/my_v01-04/M arlinTPC/v00-02-06] installation status: OK - set to use mode
  + [/mnt/data2/ilcsoft/ilcinstall_prueba/ilcinstall/my_v01-04/S tandardConfig/v00-06-00] installation status: OK - set to use mode
  + [/mnt/data2/ilcsoft/ilcinstall_prueba/ilcinstall/my_v01-04/M arlinReco/v00-10-04] installation status: OK - set to use mode
  + [/mnt/data2/ilcsoft/ilcinstall_prueba/ilcinstall/my_v01-04/P andoraPFA/v02-03-00] installation status: OK - set to use mode
  + [/mnt/data2/ilcsoft/ilcinstall_prueba/ilcinstall/my_v01-04/M arlinUtil/v00-11] installation status: OK - set to use mode
  + [/mnt/data2/ilcsoft/ilcinstall_prueba/ilcinstall/my_v01-04/L CFI_SGVbasedNets/v00-01] installation status: OK - set to use mode
  + [/mnt/data2/ilcsoft/ilcinstall_prueba/ilcinstall/my_v01-04/C ED/v00-05] installation status: OK - set to use mode
  + [/mnt/data2/ilcsoft/ilcinstall_prueba/ilcinstall/my_v01-04/l ccd/v00-03-06] installation status: OK - set to use mode
  + [/mnt/data2/ilcsoft/ilcinstall_prueba/ilcinstall/my_v01-04/R AIDA/v01-04-02] installation status: OK - set to use mode
  + [/mnt/data2/ilcsoft/ilcinstall_prueba/ilcinstall/my_v01-04/C Make/2.4.6] installation status: OK - set to use mode
  + [/mnt/data2/ilcsoft/ilcinstall_prueba/ilcinstall/my_v01-04/C ondDBMySQL/CondDBMySQL_ILC-0-5-10] installation status: OK - set to use mode
  + [/mnt/data2/ilcsoft/ilcinstall_prueba/ilcinstall/my_v01-04/C MakeModules/v01-07] installation

status: OK - set to use mode
   + [/mnt/data2/ilcsoft/ilcinstall_prueba/ilcinstall/my_v01-04/g ear/v00-09] installation status: OK - set to use mode

+ Dependencies Pre-Check...

+ Dependencies Check...

+ Dependencies Post-Check...

***************************** Starting ILC Software installation process *****************************

***************************** Creating symlinks *****************************

+ Linking /mnt/data2/ilcsoft/ilcinstall_prueba/ilcinstall/my_v01-04/ro ot/5.16.00 ->
/afs/desy.de/group/it/ilcsoft/root/5.16.00
+ Linking /mnt/data2/ilcsoft/ilcinstall_prueba/ilcinstall/my_v01-04/ge ant4/9.1 ->
/afs/desy.de/group/it/ilcsoft/geant4/9.1
+ Linking /mnt/data2/ilcsoft/ilcinstall_prueba/ilcinstall/my_v01-04/ce rnlib/2006 ->
/afs/desy.de/group/it/ilcsoft/cernlib/2006
+ Linking /mnt/data2/ilcsoft/ilcinstall_prueba/ilcinstall/my_v01-04/ja va/1.6.0 ->
/afs/desy.de/group/it/ilcsoft/java/1.6.0

***************************** Checking for rebuilds *****************************

***************************** Downloading sources *****************************

 *** *******************
*** Downloading sources for Mokka version mokka-06-06-p03...
 *** *******************
--13:58:32--   http://polywww.in2p3.fr/activites/physique/geant4/tesla/www/
mokka/software/mokka_tags/Mokka-mokka-06-06-p03.tgz
Resolving polywww.in2p3.fr... 134.158.128.2
Connecting to polywww.in2p3.fr|134.158.128.2|:80... connected.
HTTP request sent, awaiting response... 404 Not Found
13:58:32 ERROR 404: Not Found.

*** ERROR in module [Mokka]: Problems ocurred downloading sources!!

What does it mean?
What can I do?

Thanks.

Carmen

Subject: feature or bug in TRKSiSD00?
Posted by rita on Mon, 19 Jan 2009 16:37:44 GMT
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Hello,

Is there any reason to keep the primary PID information in the TRKHit Collection output of TRKSiSD00, instead of the secondary PID?
This prevents to access to the secondary MonteCarlo particle informations, as vertex, momentum at the vertex, PDG code, etc, via GetMCParticle().

In the function TRKSiSD00::DumpHit I have changed the assigement of the PID as

Line 317
  CalCollection-> insert(new TRKHit (currentCylinder,
     ...
  (Line 325) {currentPID} --> {aStep->GetTrack()->GetTrackID()},

Is there another way to access secondary particle MC informations?

Thank you in advance,

rita

Subject: Re: problems with mokka in v01-04
Posted by engels on Tue, 20 Jan 2009 08:52:29 GMT
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Hi Carmen,

sorry for the late reply.

---

it seems that your configuration file is set to download the mokka 06-06-p03 tarball, which does not exist. you need to download this version of mokka with cvs by placing following line in your configuration file:
ilcsoft.module("Mokka").download.type="cvs"

Cheers,
Jan

Subject: vxd03 in ILD_00
Posted by walsh on Thu, 19 Feb 2009 11:07:14 GMT
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Hi,

I am trying to run the simulation of the ILD_00 model with the 5 single-layer geometry of LDCPrime_02Sc, vxd03. In my mokka steering file I added the following lines:

/Mokka/init/EditGeometry/rmSubDetector vxd05
/Mokka/init/EditGeometry/addSubDetector vxd03 20

I got the 5-layer structure in the gear file but the ladder distances are off by 1mm. For example, for the first ladder I get

LDPrime_02Sc   : ladder distance="1.486600000e+01"
ILD_00 (5 layers): ladder distance="1.586600000e+01"

What else should I change to obtain the correct one?

Thanks!

Roberval

Subject: Re: vxd03 in ILD_00
Posted by walsh on Mon, 23 Feb 2009 12:15:20 GMT
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I think I found the solution. I added to my steering file the lines:

/Mokka/init/globalModelParameter VXD_inner_radius 15
/Mokka/init/globalModelParameter VXD_radius_r1 15
/Mokka/init/globalModelParameter VXD_radius_r2 26
/Mokka/init/globalModelParameter VXD_radius_r3 37
/Mokka/init/globalModelParameter VXD_radius_r4 48
/Mokka/init/globalModelParameter VXD_radius_r5 60

Cheers

Subject: Re: vxd03 in ILD_00
Posted by walsh on Thu, 26 Feb 2009 14:42:25 GMT
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The complete set of parameters in Mokka for the ILD_00 with the 5 single layer geometry:

/Mokka/init/EditGeometry/rmSubDetector vxd05
/Mokka/init/EditGeometry/addSubDetector vxd03 20
/Mokka/init/globalModelParameter VXD_inner_radius 15
/Mokka/init/globalModelParameter VXD_radius_r1 15
/Mokka/init/globalModelParameter VXD_radius_r2 26
/Mokka/init/globalModelParameter VXD_radius_r3 37
/Mokka/init/globalModelParameter VXD_radius_r4 48
/Mokka/init/globalModelParameter VXD_radius_r5 60
/Mokka/init/globalModelParameter VXD_length_r1 50
/Mokka/init/globalModelParameter VXD_side_band_electronics_width 1

Cheers,
Roberval

Subject: Re: feature or bug in TRKSiSD00?
Posted by musat on Tue, 07 Apr 2009 14:45:20 GMT
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Dear Rita,

All sensitive detectors in the tracking region write
(to the hit that is being saved) the PID stored in

Control::primaryId

This is updated to the current TrackID in :
Mokka/source/Kernel/src/TrackingAction.cc

In TrackingAction::PreUserTrackingAction there is the following
piece of code:

```
==================================================
  if( TruePrimary || ( InsideTrackerRegion &&

     aTrack->GetKineticEnergy()>Control::TPCCut)  )
  {

    // reset the PID for Cal hits
    Control::GetControl()->ResetPIDForCalHit(aTrack->GetTrackID());
==================================================
```

If the initial kinetic energy of the track is greater than
Control::TPCCut (default is 10 MeV) then all sub-detectors
located in the tracking region will store in the hits the
PID of the current track.

The TPCCut can be changed by the command line option

Mokka -t <double>

specifies the TPC primary energy cut in MeV.
(enables the user to control the TPC output file length)
(default is 10 MeV)

or with the steering command:

/Mokka/init/TPCCut

The most direct way to go is to set the TPCCut to zero for
example, but in that case, all tracking devices will behave
like the VXD.

And, if I understood correctly from Paulo, all parent particles
are saved, up to the primary, thus giving large lcio files.

The other possibility is to

- replace 'currentPID' by 'currentSecondaryPID'

in TRKSiSD00::DumpHit

Thus correcting the specific problem of the VXD, and leaving the
other tracking detectors unaffected.

What do you think it would be best to do?

Best regards,
Gabriel

Subject: Probs to start Mokka
Posted by stoebe on Wed, 03 Jun 2009 14:35:20 GMT
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Hello I have installed Geant4 and Mokka. Geant4 is working well but when I want to start Mokka I
get this ERROR:

terminate called after throwing an instance of 'gear::ParseException'
  what(): gear::ParseException: TPCParametersXML::toXML : Unknown coordinateType !
Aborted

the whole install and run doc is attached.
has anybody an idea what the problem could be.

Thanks Michael

File Attachments
1) mokka-install+run-doc.txt, downloaded 680 times

Subject: Re: Probs to start Mokka
Posted by stoebe on Tue, 09 Jun 2009 21:21:11 GMT
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when I install Mokka with ilcsoft I get this ERROR

**** Mokka started at Tue Jun 9 17:21:40 2009

Mokka tag $Name: mokka-06-07 $, $Id: Mokka.cc,v 1.36 2008/05/16 12:05:36 musat Exp $
Constructing RunManager...

 ** *
 Geant4 version Name: geant4-09-02-patch-01   (13-March-2009)
               Copyright : Geant4 Collaboration
               Reference : NIM A 506 (2003), 250-303
                   WWW : http://cern.ch/geant4
 ** *

<<< Geant4 Physics List engine packaging library: PACK 5.4
<<< Geant4 Physics List simulation engine: LHEP 4.2

terminate called after throwing an instance of '__gnu_cxx::recursive_init'
  what(): N9__gnu_cxx14recursive_initE
Aborted

thanks for helping

Subject: Re: problems with mokka in v01-04
Posted by engels on Mon, 22 Jun 2009 11:24:08 GMT
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Hi Carmen,

sorry if this post got somehow fallen into oblivion.

The problem you've reported on your first message (quoted below) happens because you have
the environment variable G4VIS_USE_RAYTRACERX set on your system (maybe from a
previous geant4 installation)

To fix the problem you should just need to unset it and recompile Mokka.

Cheers,
Jan

Quote:
 /mnt/data2/ilcsoft/ilcinstall_prueba/ilcinstall/my_v01-04/Mo
kka/mokka-06-06-p03/tmp/Linux-g++/Mokka/exe/Mokka.o: In function
`G4VisExecutive::RegisterGraphicsSystems()':
Mokka.cc:(.text+0x395): undefined reference to `G4RayTracerX::G4RayTracerX()'
collect2: ld returned 1 exit status

Subject: Re: Probs to start Mokka
Posted by Ryan_Page on Mon, 27 Jul 2009 09:50:00 GMT
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Hi,

I am not sure exactly what causes this, but I had the same issue and so I installed an older
version of Geant4 (9.1.p03) with mokka 06-07-p01, and I found that this combination works ok.

Ryan

Subject: publication quality detector drawings
Posted by harderk on Mon, 03 Aug 2009 14:03:02 GMT
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Hello everyone,
Does anyone have a script (list of GEANT commands) to create a publication quality plot of a
cross-section (rz or rphi, ideally both) of the detector model in use in Mokka? I need something
like that for LDCPrime_02Sc, but my attempts to produce something were not particularly pretty
so far.
Cheers,
Kristian

Subject: Re: publication quality detector drawings
Posted by NormanGraf on Mon, 03 Aug 2009 20:33:55 GMT
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Hello Kristian,
 In my experience, Dawn is the best tool to use for this. Have you tried it?
Norman

Subject: Re: Probs to start Mokka
Posted by engels on Tue, 04 Aug 2009 08:50:29 GMT
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Hi Michael,

as Ryan assumed correctly, it seems you are using incompatible versions of mokka, geant4 and gear..

Please have a look here for compatible versions used in the latest ilcsoft release (unfortunately geant4/9.1 is missing in the list)

Cheers,
Jan

Subject: Re: Probs to start Mokka
Posted by stoebe on Tue, 04 Aug 2009 13:43:48 GMT
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Thanks a lot for your help. Now I am using the geant on Desy and this works.

cheers Michael

Subject: Re: publication quality detector drawings
Posted by harderk on Wed, 05 Aug 2009 15:46:23 GMT
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Hello Norman,
Thank you for pointing me to Dawn. That did give me the desired result and was reasonably easy to learn how to use!
Kristian

Subject: Re: publication quality detector drawings
Posted by NormanGraf on Wed, 05 Aug 2009 17:12:21 GMT
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Hello Kristian,

Glad to be of assistance. Please let me know if you encounter any difficulties or need some help getting just the figures you need. Dawn is quite capable, but is also quite idiosyncratic.
Norman

Subject: New SVN Mokka repository
Posted by musat on Thu, 03 Sep 2009 13:39:14 GMT
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Dear Friends,

A new subversion repository for Mokka is available from LLR at:

http://llrforge.in2p3.fr/svn/Mokka

The first tag committed to it is 'mokka-07-00'.

There is a default readonly access with no passwd.

For Mokka developers we created write access accounts
that have the same account names and passwords that
they had on the old CVS repository.

There is a 'trunk' sub-directory containing the develompent
tree, a 'tags' sub-directory and a 'branches' one.

For example:

- the first tag can be checked out with the command

  svn co http://llrforge.in2p3.fr/svn/Mokka/tags/mokka-07-00

- the 'trunk' can be checked out with the command

  svn co http://llrforge.in2p3.fr/svn/Mokka/trunk Mokka

A ViewVC access is also available:

   http://llrforge.in2p3.fr/viewvc/Mokka/

The old CVS repository is still available in readonly mode.

The new developments will be committed to the new SVN.

Many thanks to David Chamont, the administrator of the LLR software repositories
for all his help!

Best regards,
Paulo and Gabriel

Subject: Re: problems with mokka in v01-04 and also v01-06
Posted by iglesias on Thu, 24 Sep 2009 10:56:52 GMT
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Hello:
Now, I try to install the new version v01-06, and at finish of the installation I obtain the same error
message with respecto to Mokka (the rest of the packages have been installed OK)

make[1]: Leaving directory `/mnt/data2/ilcsoft/v01-06/Mokka/mokka-06-07-patch01/source/
Kernel'
make[1]: Entering directory `/mnt/data2/ilcsoft/v01-06/Mokka/mokka-06-07-patch01/source/
Kernel'
Compiling Control.cc ...
Compiling ControlMessenger.cc ...
Compiling DummyPhysicsList.cc ...
Compiling EventAction.cc ...
Compiling GeneralPhysics.cc ...
Compiling GPSGenerator.cc ...
Compiling GuineaPigInterface.cc ...
Compiling HepLCIOInterface.cc ...
src/HepLCIOInterface.cc: In member function âvirtual void
HepLCIOInterface::GeneratePrimaryVertex(G4Event*)â:
src/HepLCIOInterface.cc:278: error: âassertâ was not declared in this scope
 /afs/desy.de/i586_rhel40/products/CLHEP/2.0.3.2/include/CLHE P/Units/PhysicalConstants.h: At
global scope:
 /afs/desy.de/i586_rhel40/products/CLHEP/2.0.3.2/include/CLHE P/Units/PhysicalConstants.h:78:
warning: âCLHEP::electron_chargeâ defined but not used
make[1]: *** [/mnt/data2/ilcsoft/v01-06/Mokka/mokka-06-07-patch01/tmp/Lin
ux-g++/Mokka/HepLCIOInterface.o] Error 1
make[1]: Leaving directory `/mnt/data2/ilcsoft/v01-06/Mokka/mokka-06-07-patch01/source/
Kernel'
make: *** [all] Error 2

*** ERROR in module [Mokka]: Required file not found:
['/mnt/data2/ilcsoft/v01-06/Mokka/mokka-06-07-patch01/bin/Li nux-g++/Mokka']

and If I go to the directory '/mnt/data2/ilcsoft/v01-06/Mokka/mokka-06-07-patch01/bin/" it is empty.

I have tried to put in the configuration file the line that you told me:
ilcsoft.module("Mokka").download.type="cvs"

But I obtain again the same error message about Mokka.

Subject: problem in the installation of MOKKA
Posted by iglesias on Mon, 28 Sep 2009 11:22:22 GMT
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Hello:
I try to install the new version v01-06, and at finish of the installation I obtain the same error
message with respecto to Mokka (the rest of the packages have been installed OK)

make[1]: Leaving directory `/mnt/data2/ilcsoft/v01-06/Mokka/mokka-06-07-patch01/source/
Kernel'
make[1]: Entering directory `/mnt/data2/ilcsoft/v01-06/Mokka/mokka-06-07-patch01/source/
Kernel'
Compiling Control.cc ...
Compiling ControlMessenger.cc ...
Compiling DummyPhysicsList.cc ...
Compiling EventAction.cc ...
Compiling GeneralPhysics.cc ...
Compiling GPSGenerator.cc ...
Compiling GuineaPigInterface.cc ...
Compiling HepLCIOInterface.cc ...
src/HepLCIOInterface.cc: In member function âvirtual void
HepLCIOInterface::GeneratePrimaryVertex(G4Event*)â:
src/HepLCIOInterface.cc:278: error: âassertâ was not declared in this scope
 /afs/desy.de/i586_rhel40/products/CLHEP/2.0.3.2/include/CLHE P/Units/PhysicalConstants.h: At
global scope:
 /afs/desy.de/i586_rhel40/products/CLHEP/2.0.3.2/include/CLHE P/Units/PhysicalConstants.h:78:
warning: âCLHEP::electron_chargeâ defined but not used
make[1]: *** [/mnt/data2/ilcsoft/v01-06/Mokka/mokka-06-07-patch01/tmp/Lin
ux-g++/Mokka/HepLCIOInterface.o] Error 1
make[1]: Leaving directory `/mnt/data2/ilcsoft/v01-06/Mokka/mokka-06-07-patch01/source/
Kernel'

---

make: *** [all] Error 2
*** ERROR in module [Mokka]: Required file not found:
['/mnt/data2/ilcsoft/v01-06/Mokka/mokka-06-07-patch01/bin/Li nux-g++/Mokka']

and If I go to the directory '/mnt/data2/ilcsoft/v01-06/Mokka/mokka-06-07-patch01/bin/" it is empty.

P.D:
In the configuration file I have put about MOKKA:
ilcsoft.install(Mokka("mokka-06-07-patch01")).
The next time that I check I also have add the next line:
ilcsoft.module("Mokka").download.type="cvs"

But I obtain again the same error message about Mokka.

Subject: Re: problem in the installation of MOKKA
Posted by sailer on Mon, 28 Sep 2009 13:53:00 GMT
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You probably have to provide a few more information, before anyone can help you.

What operating System are you trying to Install Mokka on?
What compiler?

It seems that you are using ILCSoft installation, that is still pointing to the DESY reference installation, is that on purpose?

Cheers,
André

Subject: Re: problem in the installation of MOKKA
Posted by engels on Mon, 28 Sep 2009 13:57:02 GMT
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Hi Carmen,

this is a compiler issue. since g++ version 4.1 or greater you have to explicitly #include <assert.h> when using assert otherwise the compiler throws an error. (don't worry if this doens't make much sense to you

Just edit the file /mnt/data2/ilcsoft/v01-06/Mokka/mokka-06-07-patch01/source/K ernel/src/HepLCIOInterface.cc and add at the top:
#include <assert.h>

If you still experince more problems I recommend you to try a more recent version of Mokka where this problems are already fixed.

Cheers && Good Luck!
Jan

Subject: Re: problem in the installation of MOKKA
Posted by iglesias on Tue, 29 Sep 2009 11:20:40 GMT
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Hi Jan
I have added #include <assert.h> in the HepLCIOInterface.cc file but again obtain an error message:

Creating/replacing object files in /mnt/data2/ilcsoft/v01-06/Mokka/mokka-06-07-patch01/tmp/Linu x-g++/Mokka/libMokka.a ...
ar: creating /mnt/data2/ilcsoft/v01-06/Mokka/mokka-06-07-patch01/tmp/Linu
x-g++/Mokka/libMokka.a
Compiling Mokka.cc ...
Using granular libraries ...
Linking Mokka ...
 /mnt/data2/ilcsoft/v01-06/Mokka/mokka-06-07-patch01/tmp/Linu x-g++/Mokka/exe/Mokka.o: In function `G4VisExecutive::RegisterGraphicsSystems()':
Mokka.cc:(.text+0x395): undefined reference to `G4RayTracerX::G4RayTracerX()'
collect2: ld returned 1 exit status
make[1]: *** [/mnt/data2/ilcsoft/v01-06/Mokka/mokka-06-07-patch01/bin/Lin ux-g++/Mokka] Error 1
make[1]: Leaving directory `/mnt/data2/ilcsoft/v01-06/Mokka/mokka-06-07-patch01/source/ Kernel'
make: *** [all] Error 2
*** ERROR in module [Mokka]: Required file not found:
['/mnt/data2/ilcsoft/v01-06/Mokka/mokka-06-07-patch01/bin/Li nux-g++/Mokka']

What is the mean of the message? something related with Geant4 files???
I don't understand what is wrong in my installation...

You told me that I try with a more recent version of Mokka?
what version? mokka-06-06-p01 ???

Thanks

Carmen

Subject: Re: problem in the installation of MOKKA
Posted by iglesias on Tue, 29 Sep 2009 11:23:42 GMT
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Hi Jan
I have added #include <assert.h> in the HepLCIOInterface.cc file but again obtain an error
message:

Creating/replacing object files in /mnt/data2/ilcsoft/v01-06/Mokka/mokka-06-07-patch01/tmp/Linu
x-g++/Mokka/libMokka.a ...
ar: creating /mnt/data2/ilcsoft/v01-06/Mokka/mokka-06-07-patch01/tmp/Linu
x-g++/Mokka/libMokka.a
Compiling Mokka.cc ...
Using granular libraries ...
Linking Mokka ...
 /mnt/data2/ilcsoft/v01-06/Mokka/mokka-06-07-patch01/tmp/Linu x-g++/Mokka/exe/Mokka.o: In
function `G4VisExecutive::RegisterGraphicsSystems()':
Mokka.cc:(.text+0x395): undefined reference to `G4RayTracerX::G4RayTracerX()'
collect2: ld returned 1 exit status
make[1]: *** [/mnt/data2/ilcsoft/v01-06/Mokka/mokka-06-07-patch01/bin/Lin ux-g++/Mokka] Error
1
make[1]: Leaving directory `/mnt/data2/ilcsoft/v01-06/Mokka/mokka-06-07-patch01/source/
Kernel'
make: *** [all] Error 2
*** ERROR in module [Mokka]: Required file not found:
['/mnt/data2/ilcsoft/v01-06/Mokka/mokka-06-07-patch01/bin/Li nux-g++/Mokka']

What is the mean of the message? something related with Geant4 files???
I don't understand what is wrong in my installation...

You told me that I try with a more recent version of Mokka?
what version? mokka-06-06-p01 ???

Thanks

Carmen

Subject: Re: problem in the installation of MOKKA
Posted by iglesias on Tue, 29 Sep 2009 11:26:27 GMT
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Hi Andre,
My compiler is GCC, (GNU) version 4.1 and 3.4 in compatibillity mode
My opperating system is SL5.

But I only have problems in the installation of Mokka package, all the rest of the packages are OK
installed.

Regards

Carmen

Subject: Re: problem in the installation of MOKKA
Posted by engels on Wed, 30 Sep 2009 06:57:39 GMT
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Hi Carmen,

I already helped you with that problem once, please check this post

Cheers,
Jan

Subject: Re: problems with mokka in v01-04
Posted by iglesias on Wed, 30 Sep 2009 07:51:11 GMT
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Sorry, I have not read this mail because in June I was with maternity leave.
Now I unset the enviorement variable as you told me and re-compile Mokka and I have finished
correctly the installation.

Thank you very much.

Regards

Carmen

Subject: Re: problems with mokka in v01-04
Posted by engels on Wed, 30 Sep 2009 07:56:48 GMT
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Hi Carmen,

No problem, I'm glad I could help

Cheers,
Jan

Subject: Simulator status of particles in MC collection
Posted by cbartels on Thu, 08 Oct 2009 09:54:01 GMT
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I've been checking the dumpevent printout of the MCParticle collections for some .slcio of the 2008 DESY mass production,
and i'm confused about the "v: vertex is not endpoint of parent" bit. It seems that when the bit is set, the vertex actually IS the endpoint of the parent, and vice versa. An example is below. Maybe there is a bug in dumpevent or Mokka?

I used the afs binaries in:
/afs/desy.de/group/it/ilcsoft/v01-06/Marlin/v00-10-04/

Greets,
Christoph

In this printout the particle with index 5 has the endpoint of the parent 4 as vertex, although the v-bit is set.

collection name : MCParticlesSkimmed
parameters:

--------------- print out of MCParticle collection ---------------

flag: 0x0
simulator status bits: [sbvtcls] s: created in simulation b: backscatter v: vertex is not endpoint of parent t: decayed in tracker c: decayed in calorim
eter l: has left detector s: stopped

```
[ id ]index|    PDG |   px,    py,      pz   | energy |gen|[simstat]| vertex x,   y ,  z   |
endpoint x,  y ,  z  |  mass | ch
arge |  [parents] - [daughters] |

[0000661c]  0|      22| 2.88e-06,-5.29e-06, 1.12e-02| 1.12e-02| 1 |[    l ]| 0.00e+00, 0.00e+00,
0.00e+00| 3.59e+00,-6.59e+00, 1.40e+04| 0.00e+00| 0.0
0e+00| [] - []
[0000661d]  1|      22|-1.15e-08,-2.40e-09,-4.80e-07| 4.80e-07| 1 |[   c s]| 0.00e+00, 0.00e+00,
0.00e+00|-5.99e+01,-1.25e+01,-2.51e+03| 0.00e+00| 0.0
0e+00| [] - []
[0000661e]  2|      12|-1.85e+02,-5.99e+01, 9.84e+01| 2.18e+02| 1 |[    l ]| 0.00e+00, 0.00e+00,
0.00e+00|-7.50e+03,-2.43e+03, 4.00e+03| 0.00e+00| 0.0
0e+00| [] - []
[0000661f]  3|     -12| 1.80e+02, 4.74e+01,-8.15e+00| 1.86e+02| 1 |[    l ]| 0.00e+00, 0.00e+00,
0.00e+00| 7.50e+03, 1.98e+03,-3.39e+02| 0.00e+00| 0.0
0e+00| [] - []
[00006620]  4|      22| 4.63e+00, 1.25e+01,-9.30e+01| 9.40e+01| 1 |[   t s]| 0.00e+00, 0.00e+00,
0.00e+00| 1.54e+01, 4.15e+01,-3.09e+02| 0.00e+00| 0.0
0e+00| [] - [5,14]
[00006621]  5|     -11| 3.15e+00, 8.48e+00,-6.32e+01| 6.38e+01| 0 |[s v c s]| 1.54e+01,
4.15e+01,-3.09e+02| 1.29e+02, 3.35e+02,-2.49e+03| 5.11e-04| 1.0
0e+00| [4] - [6]
[00006622]  6|      22| 2.42e-01, 5.81e-01,-4.31e+00| 4.36e+00| 0 |[s   c s]| 1.29e+02,
3.30e+02,-2.47e+03| 1.29e+02, 3.31e+02,-2.48e+03| 0.00e+00| 0.0
0e+00| [5] - [7]
```

Subject: Migration of CVS Repository of Mokka
Posted by musat on Wed, 25 Nov 2009 15:04:26 GMT
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Dear friends,

The old cvs repository of Mokka was migrated from
' pollin1.in2p3.fr ' to ' llrforge.in2p3.fr '
(pollin1 will be stopped).

The old Mokka releases can be downloaded from the new
cvs repository, via the (readonly) account ' anoncvs '.

You have to set CVSROOT to

:pserver:anoncvs@llrforge.in2p3.fr:/home/cvs/llc

(the passwd is unchanged).

Best regards,
Gabriel

Subject: Mokka Installation on MacOs
Posted by acharpy on Thu, 04 Feb 2010 09:47:11 GMT
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Hello Mokka users,

I am newer in the IlcSoft framework and I would like to implement the full description fo the Silicon
Tracker System (SIT, SET and ETD).

So, to understand more and play a little with the geometry code, I try to install mokka in my laptop.
For the moment I have already install LCHEP, Geant4, LCIO and GEAR without problems.

Now, when I try to install Mokka but I have some problem in the compilation. To be more precise,
the compilation is ok, but there are problems with the libraries linking . I don't find the solution to
fix it (probably it is simple and I am lost ^^). Everybody could help me please ? Need I to give
more informations ?

- The system is MacOs 10.5.8 on Intel processor
- XCode 3.1.2
- Mokka 7-00-00
- Geant4 9.2p02
- CLHEP 2.0.4.2
- mySql
- v01-11-00

- g++ 4.0.1

Following, a dump of my environement and the error message during the compilation:

Thanks in advance...
My best regards

Alexandre

Environement:

 CLHEP_LIB_DIR=/Users/Shared/Dev/CommonDev/CLHEP/CLHEP_2.0.4. 2/lib
 G4LEVELGAMMADATA=/Users/Shared/Dev/CommonDev/Geant4/geant4.9
.2.p02/data/PhotonEvaporation2.0
GEAR=/Users/Shared/Dev/CommonDev/Gear/v00-11-01
 MANPATH=/opt/local/share/man:/usr/share/man:/usr/local/share
/man:/Library/TeX/Distributions/.DefaultTeX/Contents/Man:/us r/X11/share/man
G4INSTALL=/Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02
SHELL=/bin/bash
MAKEFLAGS=-j 2
LCIO=/Users/Shared/Dev/CommonDev/LCIO/v01-11/
 G4LEDATA=/Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/d ata/G4EMLOW6.2
 LD_LIBRARY_PATH=/Users/Shared/Dev/CommonDev/Geant4/geant4.9.
2.p02/lib/Darwin-g++:/Users/Shared/Dev/CommonDev/CLHEP/CLHEP
_2.0.4.2/lib:/Users/Shared/Dev/CommonDev/Root/root_v5.26.00/ /lib
XMFLAGS=
COMMAND_MODE=unix2003
XMLIBS=
 G4NEUTRONHPDATA=/Users/Shared/Dev/CommonDev/Geant4/geant4.9.
2.p02/data/G4NDL3.13
MOKKA=/Users/Shared/Dev/CommonDev/Mokka/mokka-07-00
G4VIS_BUILD_OPENGLX_DRIVER=1
 G4RADIOACTIVEDATA=/Users/Shared/Dev/CommonDev/Geant4/geant4.
9.2.p02/data/RadioactiveDecay3.2
 G4ABLADATA=/Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02 /data/G4ABLA3.0
 PATH=/Users/Shared/Dev/CommonDev/LCIO/v01-11//tools:/Users/S
hared/Dev/CommonDev/LCIO/v01-11//bin:/usr/local/mysql/bin/:/
opt/local/bin:/opt/local/sbin:/usr/bin:/bin:/usr/sbin:/sbin:
/usr/local/bin:/usr/texbin:/usr/X11/bin:/Users/Shared/Dev/LC
/bin/Darwin-g++:/Users/Shared/Dev/CommonDev/Root/root_v5.26. 00//bin

G4LIB=/Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib
G4VIS_BUILD_RAYTRACERX_DRIVER=1
G4LIB_BUILD_SHARED=1
PWD=/Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02
G4LIB_BUILD_STATIC=1
  CLHEP_BASE_DIR=/Users/Shared/Dev/CommonDev/CLHEP/CLHEP_2.0.4 .2
LANG=fr_FR.UTF-8
ROOTSYS=/Users/Shared/Dev/CommonDev/Root/root_v5.26.00/
G4VIS_USE_OPENGLX=1
G4UI_USE_TCSH=1
G4LIB_USE_GRANULAR=1
G4VIS_USE_RAYTRACERX=1
  CLHEP_INCLUDE_DIR=/Users/Shared/Dev/CommonDev/CLHEP/CLHEP_2. 0.4.2/include
G4DEBUG=1
G4SYSTEM=Darwin-g++
XAWLIBS=
  DYLD_LIBRARY_PATH=/Users/Shared/Dev/CommonDev/Geant4/geant4.
9.2.p02/lib/Darwin-g++:/Users/Shared/Dev/CommonDev/CLHEP/CLH EP_2.0.4.2/lib
LOGNAME=charpy
G4WORKDIR=/Users/Shared/Dev/LC
CLHEP_LIB=CLHEP
XAWFLAGS=
DEV=/Users/Shared/Dev

Compilation

Creating shared library /Users/Shared/Dev/LC/tmp/Darwin-g++/CGA/libCGA.dylib ...
ar: creating archive /Users/Shared/Dev/LC/tmp/Darwin-g++/CGA/libCGA.a
ld warning: in CGABeamOn.o, file is not of required architecture
ld warning: in CGACellIndex.o, file is not of required architecture
ld warning: in CGAFieldCalculations.o, file is not of required architecture
ld warning: in CGAGeometryEnvironment.o, file is not of required architecture
....
Creating/replacing object files in /Users/Shared/Dev/LC/tmp/Darwin-g++/Mokka/libMokka.a ...
ar: creating archive /Users/Shared/Dev/LC/tmp/Darwin-g++/Mokka/libMokka.a
Using granular libraries ...

Linking Mokka

ld warning: in /Users/Shared/Dev/LC/tmp/Darwin-g++/Mokka/libMokka.dylib, file is not of required architecture

ld warning: in /Users/Shared/Dev/LC/tmp/Darwin-g++/Tesla/libTesla.dylib, file is not of required architecture

ld warning: in /Users/Shared/Dev/LC/tmp/Darwin-g++/Calice/libCalice.dylib, file is not of required architecture

ld warning: in /Users/Shared/Dev/LC/tmp/Darwin-g++/SiD/libSiD.dylib, file is not of required architecture

ld warning: in /Users/Shared/Dev/LC/tmp/Darwin-g++/LDC/libLDC.dylib, file is not of required architecture

ld warning: in /Users/Shared/Dev/LC/tmp/Darwin-g++/tbeam/libtbeam.dylib, file is not of required architecture

ld warning: in /Users/Shared/Dev/LC/tmp/Darwin-g++/EUTelescope/libEUTelesco pe.dylib, file is not of required architecture

ld warning: in /Users/Shared/Dev/LC/tmp/Darwin-g++/PluginManager/libPluginM anager.dylib, file is not of required architecture

ld warning: in /Users/Shared/Dev/LC/tmp/Darwin-g++/Checkplots/libCheckplots .dylib, file is not of required architecture

ld warning: in /Users/Shared/Dev/LC/tmp/Darwin-g++/MarkerPlugin/libMarkerPl ugin.dylib, file is not of required architecture

ld warning: in /Users/Shared/Dev/LC/tmp/Darwin-g++/workshop/libworkshop.dyl ib, file is not of required architecture

ld warning: in /Users/Shared/Dev/LC/tmp/Darwin-g++/LCPhys/libLCPhys.dylib, file is not of required architecture

ld warning: in /Users/Shared/Dev/LC/tmp/Darwin-g++/CGA/libCGA.dylib, file is not of required architecture

ld warning: in /Users/Shared/Dev/LC/tmp/Darwin-g++/MokkaGear/libMokkaGear.d ylib, file is not of required architecture

ld warning: in /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin -g++/libG4geomdivision.dylib, file is not of required architecture

ld warning: in /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin -g++/libG4geomBoolean.dylib, file is not of required architecture

ld warning: in /Users/Shared/Dev/CommonDev/LCIO/v01-11//lib/liblcio.dylib, file is not of required architecture

ld warning: in /Users/Shared/Dev/CommonDev/LCIO/v01-11//lib/libsio.dylib, file is not of required architecture

ld warning: in /Users/Shared/Dev/CommonDev/Gear/v00-11-01/lib/libgearxml.dy lib, file is not of required architecture

ld warning: in /Users/Shared/Dev/CommonDev/Gear/v00-11-01/lib/libgear.dylib , file is not of required architecture

ld warning: in /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin

-g++/libG4phys_lists.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4phys_builders.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4visHepRep.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4FR.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4RayTracer.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4Tree.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4VRML.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4OpenGL.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4vis_management.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4hadronic_radioactivedecay.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4decay.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4UIbasic.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4UIcommon.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4emhighenergy.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4muons.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4run.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4emlowenergy.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4xrays.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4emstandard.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4hadronic_binary.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4hadronic_coherent_elastic.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin

-g++/libG4had_theo_max.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4hadronic_interface_ci.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4had_muon_nuclear.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4transportation.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4hadronic_bert_cascade.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4hadronic_proc.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4hadronic_stop.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4hadronic_mgt.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4had_preequ_exciton.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4optical.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4hadronic_deex_handler.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4hadronic_deex_evaporation.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4had_neu_hp.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4had_string_diff.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4hadronic_deex_gem_evaporation.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4hadronic_deex_fission.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4scoring.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4hadronic_deex_fermi_breakup.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4hadronic_deex_multifragmentation.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4hadronic_HE.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4had_string_frag.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin

-g++/libG4hadronic_qgstring.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4hadronic_deex_photon_evaporation.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4had_string_man.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4had_im_r_matrix.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4hadronic_deex_management.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4hadronic_LE.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4hadronic_body_ci.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4shortlived.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4hadronic_deex_util.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4detutils.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4hadronic_xsect.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4had_mod_util.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4had_mod_man.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4hadronic_util.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4detscorer.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4modeling.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4event.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4mesons.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4digits.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4tracking.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4emutils.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin

-g++/libG4leptons.dylib, file is not of required architecture
ld warning: in /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4baryons.dylib, file is not of required architecture
ld warning: in /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4ions.dylib, file is not of required architecture
ld warning: in /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4bosons.dylib, file is not of required architecture
ld warning: in /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4cuts.dylib, file is not of required architecture
ld warning: in /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4procman.dylib, file is not of required architecture
ld warning: in /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4detector.dylib, file is not of required architecture
ld warning: in /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4track.dylib, file is not of required architecture
ld warning: in /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4geombias.dylib, file is not of required architecture
ld warning: in /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4navigation.dylib, file is not of required architecture
ld warning: in /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4volumes.dylib, file is not of required architecture
ld warning: in /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4magneticfield.dylib, file is not of required architecture
ld warning: in /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4hits.dylib, file is not of required architecture
ld warning: in /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4partman.dylib, file is not of required architecture
ld warning: in /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4specsolids.dylib, file is not of required architecture
ld warning: in /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4csg.dylib, file is not of required architecture
ld warning: in /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4hepnumerics.dylib, file is not of required architecture
ld warning: in /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4geometrymng.dylib, file is not of required architecture
ld warning: in /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4materials.dylib, file is not of required architecture
ld warning: in /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4graphics_reps.dylib, file is not of required architecture
ld warning: in /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin
-g++/libG4intercoms.dylib, file is not of required architecture
ld warning: in /Users/Shared/Dev/CommonDev/Geant4/geant4.9.2.p02/lib/Darwin

-g++/libG4globman.dylib, file is not of required architecture
ld warning: in   /Users/Shared/Dev/CommonDev/CLHEP/CLHEP_2.0.4.2/lib/libCLHEP .dylib, file is not of required architecture
Undefined symbols:
"Control::Abort(char const*)", referenced from:
    _main in Mokka.o
" G4TrajectoryOriginVolumeFilterFactory::G4TrajectoryOriginVol umeFilterFactory() ", referenced from:
    G4VisExecutive::RegisterModelFactories()   in Mokka.o
"G4VisManager::Draw2D(G4Polymarker const&, HepGeom::Transform3D const&)", referenced from:
    vtable for G4VisExecutivein Mokka.o
"G4VisManager::Draw2D(G4Circle const&, HepGeom::Transform3D const&)", referenced from:
    vtable for G4VisExecutivein Mokka.o
"G4VisManager::Draw2D(G4Text const&, HepGeom::Transform3D const&)", referenced from:
    vtable for G4VisExecutivein Mokka.o
"G4VisManager::Draw(G4LogicalVolume const&, G4VisAttributes const&, HepGeom::Transform3D const&)", referenced from:
    vtable for G4VisExecutivein Mokka.o
"CGAGeometryManager::GearSetup()", referenced from:
    _main in Mokka.o
"G4RayTracerX::G4RayTracerX()", referenced from:
    G4VisExecutive::RegisterGraphicsSystems()   in Mokka.o
"G4EventManager::SetUserAction(G4UserSteppingAction*)", referenced from:
    _main in Mokka.o
"G4AllocatorPool::~G4AllocatorPool()", referenced from:
    G4Allocator<G4CountedObject<G4VTouchable> >::~G4Allocator()in Mokka.o
"G4TransportationManager::GetTransportationManager()", referenced from:
    _main in Mokka.o
"G4VisManager::DispatchToModel(G4VTrajectory const&, int)", referenced from:
    vtable for G4VisExecutivein Mokka.o
"G4VisManager::FilterHit(G4VHit const&)", referenced from:
    vtable for G4VisExecutivein Mokka.o
"Control::PhysicsListName", referenced from:
    _main in Mokka.o
"G4VisManager::Draw(G4VSolid const&, G4VisAttributes const&, HepGeom::Transform3D const&)", referenced from:
    vtable for G4VisExecutivein Mokka.o
"vtable for gear::GearParametersImpl", referenced from:
    gear::GearParametersImpl::GearParametersImpl()in Mokka.o
"Control::BATCH_MODE", referenced from:
    _main in Mokka.o

"G4VisManager::FilterTrajectory(G4VTrajectory const&)", referenced from:
    vtable for G4VisExecutivein Mokka.o
"G4VisManager::RegisterModelFactory(G4VModelFactory<G4VFilter <G4VHit> >*)", referenced
from:
    G4VisExecutive::RegisterModelFactories()   in Mokka.o
"G4VisManager::GeometryHasChanged()", referenced from:
    vtable for G4VisExecutivein Mokka.o
"Control::globalModelParameters", referenced from:
    _main in Mokka.o
    _main in Mokka.o
" G4TrajectoryDrawByOriginVolumeFactory::G4TrajectoryDrawByOri ginVolumeFactory() ",
referenced from:
    G4VisExecutive::RegisterModelFactories()   in Mokka.o
"G4VisManager::Initialise()", referenced from:
    _main in Mokka.o
"StackingAction::StackingAction()", referenced from:
    _main in Mokka.o
"G4VisManager::Draw(G4Polyhedron const&, HepGeom::Transform3D const&)", referenced from:
    vtable for G4VisExecutivein Mokka.o
"G4VUserPhysicsList::SetDefaultCutValue(double)", referenced from:
    _main in Mokka.o
"G4StateManager::GetStateManager()", referenced from:
    _main in Mokka.o
" G4TrajectoryDrawByParticleIDFactory::G4TrajectoryDrawByParti cleIDFactory() ", referenced
from:
    G4VisExecutive::RegisterModelFactories()   in Mokka.o
"G4DAWNFILE::G4DAWNFILE()", referenced from:
    G4VisExecutive::RegisterGraphicsSystems()   in Mokka.o
"G4VisManager::Draw2D(G4Polyhedron const&, HepGeom::Transform3D const&)", referenced
from:
    vtable for G4VisExecutivein Mokka.o
" G4TrajectoryDrawByAttributeFactory::G4TrajectoryDrawByAttrib uteFactory() ", referenced
from:
    G4VisExecutive::RegisterModelFactories()   in Mokka.o
" G4TrajectoryGenericDrawerFactory::G4TrajectoryGenericDrawerF actory() ", referenced from:
    G4VisExecutive::RegisterModelFactories()   in Mokka.o
" G4TrajectoryAttributeFilterFactory::G4TrajectoryAttributeFil terFactory() ", referenced from:
    G4VisExecutive::RegisterModelFactories()   in Mokka.o
"RunAction::RunAction()", referenced from:
    _main in Mokka.o
"G4EventManager::SetUserAction(G4UserStackingAction*)", referenced from:
    _main in Mokka.o

"G4OpenGLImmediateX::G4OpenGLImmediateX()", referenced from:
   G4VisExecutive::RegisterGraphicsSystems()   in Mokka.o
"G4VisManager::Draw(G4VPhysicalVolume const&, G4VisAttributes const&,
HepGeom::Transform3D const&)", referenced from:
   vtable for G4VisExecutivein Mokka.o
"G4VisManager::Draw(G4VHit const&)", referenced from:
   vtable for G4VisExecutivein Mokka.o
"TrackingAction::TrackingAction()", referenced from:
   _main in Mokka.o
"G4VisManager::RegisterModelFactory(G4VModelFactory<G4VTrajectoryModel >*)", referenced
from:
   G4VisExecutive::RegisterModelFactories()   in Mokka.o
   G4VisExecutive::RegisterModelFactories()   in Mokka.o
   G4VisExecutive::RegisterModelFactories()   in Mokka.o
   G4VisExecutive::RegisterModelFactories()   in Mokka.o
   G4VisExecutive::RegisterModelFactories()   in Mokka.o
"G4VisManager::G4VisManager()", referenced from:
   G4VisExecutive::G4VisExecutive()in Mokka.o
"MokkaGear::mergeXML(std::basic_string<char, std::char_traits<char>, std::allocator<char> >,
std::basic_string<char, std::char_traits<char>, std::allocator<char> >, std::basic_string<char,
std::char_traits<char>, std::allocator<char> >)", referenced from:
   _main in Mokka.o
" G4TrajectoryDrawByChargeFactory::G4TrajectoryDrawByChargeFac tory() ", referenced from:
   G4VisExecutive::RegisterModelFactories()   in Mokka.o
"Control::mokkaGearMergeSource", referenced from:
   _main in Mokka.o
   _main in Mokka.o
"G4UImanager::GetUIpointer()", referenced from:
   _main in Mokka.o
"G4HepRepFile::G4HepRepFile()", referenced from:
   G4VisExecutive::RegisterGraphicsSystems()   in Mokka.o
"PhysicsListFactory::create(std::basic_string<char, std::char_traits<char>, std::allocator<char> >
const&)", referenced from:
   _main in Mokka.o
"Control::RangeCut", referenced from:
   _main in Mokka.o
"typeinfo for G4VisManager", referenced from:
   typeinfo for G4VisExecutivein Mokka.o
"G4HitAttributeFilterFactory::G4HitAttributeFilterFactory()", referenced from:
   G4VisExecutive::RegisterModelFactories()   in Mokka.o
"Control::DETECTOR_MODEL", referenced from:
   _main in Mokka.o

_main in Mokka.o
"Control::mokkaGearFileName", referenced from:
  _main in Mokka.o
  _main in Mokka.o
"MokkaGear::getMgr()", referenced from:
  _main in Mokka.o
"Control::VISUMODE", referenced from:
  _main in Mokka.o
"_G4cout", referenced from:
  _main in Mokka.o
  _main in Mokka.o
  _main in Mokka.o
  _main in Mokka.o
  _main in Mokka.o
  _main in Mokka.o
  _main in Mokka.o
  _main in Mokka.o
"PluginManager::getInstance()", referenced from:
  _main in Mokka.o
  _main in Mokka.o
"G4VRML1File::G4VRML1File()", referenced from:
  G4VisExecutive::RegisterGraphicsSystems()   in Mokka.o
"G4HepRep::G4HepRep()", referenced from:
  G4VisExecutive::RegisterGraphicsSystems()   in Mokka.o
"G4VisManager::Draw(G4NURBS const&, HepGeom::Transform3D const&)", referenced from:
  vtable for G4VisExecutivein Mokka.o
"SteppingAction::SteppingAction()", referenced from:
  _main in Mokka.o
"G4VisManager::Draw(G4Square const&, HepGeom::Transform3D const&)", referenced from:
  vtable for G4VisExecutivein Mokka.o
"CGAGeometryManager::GetCGAGeometryManager()", referenced from:
  _main in Mokka.o
"G4VisManager::Draw2D(G4NURBS const&, HepGeom::Transform3D const&)", referenced from:
  vtable for G4VisExecutivein Mokka.o
"G4RunManager::G4RunManager()", referenced from:
  RunManager::RunManager()in Mokka.o
"G4OpenGLStoredX::G4OpenGLStoredX()", referenced from:
  G4VisExecutive::RegisterGraphicsSystems()   in Mokka.o
"PluginManager::Exit() const", referenced from:
  _main in Mokka.o
"Control::G4DefaultDeltaOneStep", referenced from:

_main in Mokka.o
"G4UItcsh::G4UItcsh(G4String const&, int)", referenced from:
    _main in Mokka.o
"PrimaryGeneratorAction::PrimaryGeneratorAction()", referenced from:
    _main in Mokka.o
" G4TrajectoryParticleFilterFactory::G4TrajectoryParticleFilte rFactory() ", referenced from:
    G4VisExecutive::RegisterModelFactories()   in Mokka.o
"G4RayTracer::G4RayTracer()", referenced from:
    G4VisExecutive::RegisterGraphicsSystems()   in Mokka.o
"G4VisManager::~G4VisManager()", referenced from:
    G4VisExecutive::~G4VisExecutive()in Mokka.o
    G4VisExecutive::~G4VisExecutive()in Mokka.o
"PluginManager::Init() const", referenced from:
    _main in Mokka.o
"Control::GetControl()", referenced from:
    _main in Mokka.o
"Control::setup(int, char**)", referenced from:
    _main in Mokka.o
"PhysicsListUserLimits::Enable()", referenced from:
    _main in Mokka.o
"G4VisManager::Draw2D(G4Square const&, HepGeom::Transform3D const&)", referenced from:
    vtable for G4VisExecutivein Mokka.o
"G4AllocatorPool::G4AllocatorPool(unsigned int)", referenced from:
    G4Allocator<G4CountedObject<G4VTouchable> >::G4Allocator()in Mokka.o
"G4VRML2File::G4VRML2File()", referenced from:
    G4VisExecutive::RegisterGraphicsSystems()   in Mokka.o
"CLHEP::HepRandom::createInstance()", referenced from:
    __static_initialization_and_destruction_0(int, int)in Mokka.o
"MokkaGear::printXML()", referenced from:
    _main in Mokka.o
    _main in Mokka.o
"Control::Log(char const*)", referenced from:
    _main in Mokka.o
"G4VisManager::Draw(G4Polyline const&, HepGeom::Transform3D const&)", referenced from:
    vtable for G4VisExecutivein Mokka.o
"G4Exception(char const*, char const*, G4ExceptionSeverity, char const*)", referenced from:
    G4VTouchable::GetVolume(int) constin Mokka.o
    G4VTouchable::GetSolid(int) constin Mokka.o
    G4VTouchable::GetReplicaNumber(int) constin Mokka.o
    G4VTouchable::MoveUpHistory(int)   in Mokka.o
    G4VTouchable::UpdateYourself(G4VPhysicalVolume*, G4NavigationHistory const*)   in
Mokka.o

G4VTouchable::GetHistoryDepth() const in Mokka.o
G4VTouchable::GetHistory() const in Mokka.o
"Control::lcWrt", referenced from:
  _main in Mokka.o
  _main in Mokka.o
"G4VisManager::RegisterModelFactory(G4VModelFactory<G4VFilter <G4VTrajectory> >*)",
referenced from:
  G4VisExecutive::RegisterModelFactories()   in Mokka.o
  G4VisExecutive::RegisterModelFactories()   in Mokka.o
  G4VisExecutive::RegisterModelFactories()   in Mokka.o
  G4VisExecutive::RegisterModelFactories()   in Mokka.o
"G4VisManager::Draw(G4Text const&, HepGeom::Transform3D const&)", referenced from:
  vtable for G4VisExecutivein Mokka.o
"G4UIterminal::G4UIterminal(G4VUIshell*, bool)", referenced from:
  _main in Mokka.o
"G4RunManagerKernel::SetPhysics(G4VUserPhysicsList*)", referenced from:
  _main in Mokka.o
"G4VisManager::Draw(G4VTrajectory const&, int)", referenced from:
  vtable for G4VisExecutivein Mokka.o
"G4EventManager::SetUserAction(G4UserEventAction*)", referenced from:
  _main in Mokka.o
"EventAction::EventAction()", referenced from:
  _main in Mokka.o
"DummyPhysicsList::DummyPhysicsList(int)", referenced from:
  _main in Mokka.o
"G4EventManager::SetUserAction(G4UserTrackingAction*)", referenced from:
  _main in Mokka.o
"G4VisManager::Draw(G4Circle const&, HepGeom::Transform3D const&)", referenced from:
  vtable for G4VisExecutivein Mokka.o
"G4ASCIITree::G4ASCIITree()", referenced from:
  G4VisExecutive::RegisterGraphicsSystems()   in Mokka.o
"Control::IntialMacroFile", referenced from:
  _main in Mokka.o
  _main in Mokka.o
"Control::G4DefaultDeltaIntersection", referenced from:
  _main in Mokka.o
"G4VisManager::Draw2D(G4Polyline const&, HepGeom::Transform3D const&)", referenced from:
  vtable for G4VisExecutivein Mokka.o
" G4TrajectoryChargeFilterFactory::G4TrajectoryChargeFilterFac tory() ", referenced from:
  G4VisExecutive::RegisterModelFactories()   in Mokka.o
"G4VisManager::Draw(G4Polymarker const&, HepGeom::Transform3D const&)", referenced from:
  vtable for G4VisExecutivein Mokka.o

"MokkaGear::setFileName(std::basic_string<char, std::char_traits<char>, std::allocator<char> >)",
referenced from:
    _main in Mokka.o
    _main in Mokka.o
"G4VisManager::Draw(G4Scale const&, HepGeom::Transform3D const&)", referenced from:
    vtable for G4VisExecutivein Mokka.o
"G4StateManager::SetNewState(G4ApplicationState)", referenced from:
    _main in Mokka.o
"G4VisManager::RegisterGraphicsSystem(G4VGraphicsSystem*)", referenced from:
    G4VisExecutive::RegisterGraphicsSystems()   in Mokka.o
    G4VisExecutive::RegisterGraphicsSystems()   in Mokka.o
    G4VisExecutive::RegisterGraphicsSystems()   in Mokka.o
    G4VisExecutive::RegisterGraphicsSystems()   in Mokka.o
    G4VisExecutive::RegisterGraphicsSystems()   in Mokka.o
    G4VisExecutive::RegisterGraphicsSystems()   in Mokka.o
    G4VisExecutive::RegisterGraphicsSystems()   in Mokka.o
    G4VisExecutive::RegisterGraphicsSystems()   in Mokka.o
    G4VisExecutive::RegisterGraphicsSystems()   in Mokka.o
    G4VisExecutive::RegisterGraphicsSystems()   in Mokka.o
"vtable for RunManager", referenced from:
    RunManager::RunManager()in Mokka.o
"G4UImanager::ApplyCommand(G4String)", referenced from:
    _main in Mokka.o
ld: symbol(s) not found
collect2: ld returned 1 exit status
make[1]: *** [/Users/Shared/Dev/LC/bin/Darwin-g++/Mokka] Error 1
make: *** [all] Error 2

Subject: Re: Mokka Installation on MacOs
Posted by acharpy on Mon, 22 Feb 2010 12:53:55 GMT
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It is done ^^

Subject: Problems starting Mokka
Posted by Ryan_Page on Thu, 08 Apr 2010 10:39:59 GMT
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Hi,

I am having some issues starting Mokka after I have installed. I used ilcinstall with config script 01-08-01, after its linked I try running it and get this error:

bin/Linux-g++/Mokka: error while loading shared libraries: libmysqlclient.so.16:

I know that the library is there, any ideas?

Thanks

Ryan

Subject: Re: Problems starting Mokka
Posted by musat on Thu, 08 Apr 2010 10:58:22 GMT
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Hi,

The problem comes from the fact that the path to this library
is not added to your LD_LIBRARY_PATH. Normally, this can be done
by sourcing the script build_env.sh that you can find in the
installation directory of Mokka inside the ilcsoft distribution.

Orelse you can add this path by yourself to LD_LIBRARY_PATH.

Cheers, Gabriel

Subject: Re: Problems starting Mokka
Posted by Ryan_Page on Thu, 08 Apr 2010 11:33:10 GMT
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Thanks, that was indeed the problem.

Subject: Segmentation fault with LDC00_03Sc
Posted by jabernathy on Thu, 20 May 2010 04:59:16 GMT

Hello all,

I am trying to run Mokka with the model LDC00_03Sc but I receive a segmentation fault after during the second event.

My steering file contains these lines:
initialize the detector model
/Mokka/init/detectorModel LDC00_03Sc

set up the GEAR file name
/Mokka/init/MokkaGearFileName gear_LDC00_03Sc.xml

set the crossing angle
/Mokka/init/globalModelParameter TUBE_crossing_angle 0.014

and I am executing the following commands to start the simulation:
/generator/generator particleGun
/gun/position 0 0 10 mm
/gun/direction 0 1 1
/gun/momentum 25 GeV
/gun/particle pi-
/run/beamOn

The first event runs without problem:
VXDCollection from the VXD sensitive detector has 5 hits.
SITCollection from the SIT sensitive detector has 6 hits.
FTDCollection from the FTD sensitive detector has 0 hits.
TPCCollection from the TPC sensitive detector has 349 hits.
TPC_skinCollection from the TPC_skin sensitive detector has 14 hits.
EcalBarrelCollection from the EcalBarrel sensitive detector has 229 hits.
EcalEndcapCollection from the EcalEndcap sensitive detector has 0 hits.
HcalBarrelRegCollection from the HcalBarrelReg sensitive detector has 2 hits.
HcalBarrelEndCollection from the HcalBarrelEnd sensitive detector has 245 hits.
HcalEndCapsCollection from the HcalEndCaps sensitive detector has 0 hits.
MuonBarrelCollection from the MuonBarrel sensitive detector has 0 hits.
MuonEndCapCollection from the MuonEndCap sensitive detector has 0 hits.
MuonPlugCollection from the MuonPlug sensitive detector has 0 hits.
LumiCalCollection from the LumiCal sensitive detector has 0 hits.

but the second "/run/beamOn" command results in a segmentation fault:
Idle> /run/beamOn

Segmentation fault

I have successfully used another model, LDC01_06Sc, successfully so I don't think that it is an installation error.

Subject: Re: Segmentation fault with LDC00_03Sc
Posted by jabernathy on Thu, 20 May 2010 05:00:27 GMT
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I have just tried the LDC00_03Rp model and it also segfaults. (Although this time it occurred on the 3rd event).

Subject: Re: Segmentation fault with LDC00_03Sc
Posted by jabernathy on Thu, 20 May 2010 05:31:21 GMT
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After recompiling in debug mode I receive this error:

==========> MOKKA ABORTING <============
ECSD::ProcessHits: Assertion failed (ModuleCopyNumber / 100 != tmp)
WARNING - Attempt to delete the physical volume store while geometry closed !
WARNING - Attempt to delete the logical volume store while geometry closed !
WARNING - Attempt to delete the solid store while geometry closed !
WARNING - Attempt to delete the region store while geometry closed !

I'm guessing that it's the ECal Sensitive Detector.

Subject: Re: Segmentation fault with LDC00_03Sc
Posted by jabernathy on Fri, 21 May 2010 03:29:26 GMT
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When the SEcal01 driver is disabled the segmentation faults no longer occur:

/Mokka/init/EditGeometry/rmSubDetector SEcal01

Subject: Re: Segmentation fault with LDC00_03Sc
Posted by aplin on Fri, 21 May 2010 10:44:41 GMT
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Hi Jason,

the LDC models are not guarenteed to work with later versions of Mokka, I would suggest that if you wish to run this model you use an older version of Mokka. Is there any particular reason why you need to run this model?

Cheers,

Steve.

Subject: Re: Segmentation fault with LDC00_03Sc
Posted by jabernathy on Fri, 21 May 2010 16:35:56 GMT
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Hi Steve,

I want to study how the non-homogeneous magnetic fields affect the TPC performance.

It was the only LDC detector concept model I could find which used the SFieldX00 driver.

I would like to be able to study different crossing angles using the same model.

Perhaps I could use something like ILD_00fwp01, ILD_00fw or CILD_00fw from the ILC or CILD concepts. What do you think?

It looks like the ILC_00fw model can only use a crossing angle of 14 mrads....

- Jason

Subject: Mokka Geometry Database Cross-Reference
Posted by vogel on Tue, 08 Jun 2010 01:57:25 GMT
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Hi all,

after the Mokka Detector Model Database Browser has been a major hit across the globe, there is now another nifty tool that will make handling Mokka geometries even more fun: the Mokka Geometry Database Cross-Reference. It shows you which building blocks are defined in the Mokka geometry database and how they are linked and related to each other – making it easier to decide which pieces you’ll want to use for your simulations, or which you might include in your own future detector geometries.

Enjoy (or complain),
Adrian

Subject: Problem with installing Mokka
Posted by Robin on Wed, 22 Jun 2011 09:19:43 GMT
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Hi everyone,

Maybe someone knows this problem and can help me.

I tried to install Mokka on my SL5 (64Bit) mashine, but it always stops with an error when linking.

I am using:

CLHEP: 2.0.4.5
GEANT4: 9.3.p02
g++: 4.1.2

This is my environment:

 CLHEP_LIB_DIR=/usr/local/lib
  G4LEVELGAMMADATA=/opt/geant4/9.3.p02/data/PhotonEvaporation2 .0
 GEAR=/scratch/ilcsoft/v01-11/gear/v00-17
 SSH_AGENT_PID=3272
 HOSTNAME=hdpc049.hephy.local
 DESKTOP_STARTUP_ID=
 G4INSTALL=/opt/geant4/9.3.p02
 TERM=xterm
 SHELL=/bin/bash
 HISTSIZE=1000
 KDE_NO_IPV6=1
 G4VIS_BUILD_VRML_DRIVER=1

GTK_RC_FILES=/etc/gtk/gtkrc:/home/robin/.gtkrc-1.2-gnome2
WINDOWID=24117328
LCIO=/scratch/ilcsoft/v01-11/lcio/v01-51-02
OLDPWD=/scratch/ilcsoft/v01-11/Mokka/mokka-07-06-p02/source
QTDIR=/usr/lib64/qt-3.3
QTINC=/usr/lib64/qt-3.3/include
G4LEDATA=/opt/geant4/9.3.p02/data/G4EMLOW6.9
USER=robin
LD_LIBRARY_PATH=/opt/CLHEP/2.1.0.1/CLHEP
XMFLAGS=
XMLIBS=
G4NEUTRONHPDATA=/opt/geant4/9.3.p02/data/G4NDL3.13
SSH_AUTH_SOCK=/tmp/ssh-sUQHBD3233/agent.3233
KDEDIR=/usr
 SESSION_MANAGER=local/hdpc049.hephy.local:/tmp/.ICE-unix/323 3
 G4RADIOACTIVEDATA=/opt/geant4/9.3.p02/data/RadioactiveDecay3 .2
 G4ABLADATA=/opt/geant4/9.3.p02/data/G4ABLA3.0
 PATH=/usr/lib64/qt-3.3/bin:/usr/kerberos/bin:/usr/local/bin:
/usr/bin:/bin:/usr/X11R6/bin:/home/robin/bin
 G4VIS_USE_DAWN=1
 G4LIB=/opt/geant4/9.3.p02/lib
 G4VIS_BUILD_RAYTRACERX_DRIVER=1
 QT_IM_MODULE=scim
 GDM_XSERVER_LOCATION=local
 G4LIB_BUILD_SHARED=1
 INPUTRC=/etc/inputrc
 PWD=/
 XMODIFIERS=@im=SCIM
 G4LIB_BUILD_STATIC=1
 CLHEP_BASE_DIR=/usr/local
 KDE_IS_PRELINKED=1
 LANG=en_US.UTF-8
 PS1=\u@\h \w $
 G4LIB_BUILD_ZLIB=1
 GDMSESSION=default
 SSH_ASKPASS=/usr/libexec/openssh/gnome-ssh-askpass
 G4UI_USE_TCSH=1
 G4LIB_USE_GRANULAR=1
 G4VIS_USE_RAYTRACERX=1
 CLHEP_INCLUDE_DIR=/usr/local/include
 SHLVL=2
 G4DEBUG=1

G4REALSURFACEDATA=/opt/geant4/9.3.p02/data/RealSurface1.0
G4SYSTEM=Linux-g++
GNOME_DESKTOP_SESSION_ID=Default
XAWLIBS=
LOGNAME=robin
QTLIB=/usr/lib64/qt-3.3/lib
CVS_RSH=ssh
 DBUS_SESSION_BUS_ADDRESS=unix:abstract=/tmp/dbus-CqdPWfbnA8,
guid=bf37293bcad3239758f0c5004e01ad2e
G4VIS_BUILD_DAWN_DRIVER=1
G4VIS_USE_VRML=1
CLHEP_LIB=CLHEP
GTK_IM_MODULE=scim-bridge
XAWFLAGS=
G4LIB_USE_ZLIB=1
G_BROKEN_FILENAMES=1
COLORTERM=gnome-terminal

And here comes the ERROR:

 Compiling Visu.cc ...
 Compiling VisuMessenger.cc ...
 Creating shared library /opt/geant4/9.3.p02/tmp/Linux-g++/Mokka/libMokka.so ...
 Creating/replacing object files in /opt/geant4/9.3.p02/tmp/Linux-g++/Mokka/libMokka.a ...
 ar: creating /opt/geant4/9.3.p02/tmp/Linux-g++/Mokka/libMokka.a
 Compiling Mokka.cc ...
 Using granular libraries ...
 Linking Mokka
 /opt/geant4/9.3.p02/tmp/Linux-g++/Tesla/libTesla.so: undefined reference to
`Yoke05::BuildRPC1PlugShape(G4Polyhedra*, muonSD*, int, G4UserLimits*, Database*,
CGAGeometryEnvironment const&)'
 collect2: ld returned 1 exit status
 gmake[1]: *** [/opt/geant4/9.3.p02/bin/Linux-g++/Mokka] Error 1
 gmake[1]: Leaving directory `/scratch/ilcsoft/v01-11/Mokka/mokka-07-06-p02/source/Kernel '
 gmake: *** [all] Error 2

If you need any furhter detail, please let me know.

With kind regards, Robin Glattauer (Hephy Vienna)

Subject: Re: Problem with installing Mokka
Posted by engels on Wed, 22 Jun 2011 10:57:07 GMT
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Hi Robin,

I don't know if this is really the problem, but you have in your environment:

G4LIB=/opt/geant4/9.3.p02/lib

which could mean that you are trying to link against the 32bit libraries of geant4. As far as I know geant4 usually creates 64bit libraries under lib64 and sharedlib64.

Another thing which I find strange is that you do not seem to have the variable G4WORKDIR set, which causes the Mokka object files to be created under /opt/geant4/9.3.p02/tmp/Linux-g++/ and the Mokka binary under /opt/geant4/9.3.p02/bin/Linux-g++/Mokka which is probably something you do not want.

Cheers, Jan.

Subject: Re: Problem with installing Mokka
Posted by Robin on Wed, 22 Jun 2011 21:21:55 GMT
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You are right, I forgot to set the G4WORKDIR. Thanks!

Concerning the libraries: I've got neither the lib64 nor the sharedlib64 folder. Maybe I did something very wrong with installing Geant4.

This is what I did:

- I downloaded the tarball from the Geant4 homepage and unpacked it in /opt/GEANT4.
- For the data files I made a directory named data and unpacked them there.
- Then I used ./Configure -build to install.
- Afterwards I used ./Configure to create env.sh.

- I executed env.sh.

Result: No lib64 or sharedlib64, though I use SL5 64 Bit. I just installed it on my Ubuntu (64 Bit!)
Laptop and there too got only the lib folder, nothing with 64.
I know that in the Desy AFS Geant4 has those folders, so where did I go wrong?

(I can't wait to find out the simple mistake, that I oversaw here.)

Cheers, Robin

Subject: Re: Problem with installing Mokka
Posted by sailer on Sat, 25 Jun 2011 10:44:10 GMT
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Hi Robin,

I think the error you see is actually an error in Mokka, not with your system. The
Yoke05::BuildRPC1PlugShape function is not implemented,but in the code it is (roughly):
Line 187 (Yoke05.cc, Revision197)
unsigned int nLayerPlug = 0;
[...]
for(i=0; i < nLayerPlug; ++i){
[...]
  Yoke05::BuildRPC1PlugShape();
[...]
}
with gcc 4.3.2 (and I think -O2) no error shows up during linking (compilation always works),
because the loop is never entered and thrown out by the compiler.
If I set nLayerPlug = 1, then I get the same error as you.

Which compiler version are you using?

Cheers,
  Andre

Subject: Re: Problem with installing Mokka

Posted by Robin on Mon, 27 Jun 2011 15:41:26 GMT
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Thank you,

I deleted the for loop and now it works.
This solution may be a bit harsh and I maybe should also try if the -O2 option when compiling makes a difference, but for the moment it works and as the loop isn't used anyway...

So, thank you!

Still, I'm wondering, if I need the Geant4 lib64 folder and why it isn't there. If anyone has some insight on this, please let me know.

Btw: My g++ /gcc version is 4.1.2.

Cheers, Robin

Subject: Re: Problem with installing Mokka
Posted by engels on Tue, 28 Jun 2011 10:01:25 GMT
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Hi Robin,

if Mokka linked correctly than everything should be ok with your geant4 installation. In case you still want to check if you have 32 or 64bit libraries installed, you can use the file commando on one of your geant4 shared libraries.

Cheers, Jan.

Subject: Re: Problem with installing Mokka
Posted by Robin on Tue, 28 Jun 2011 11:23:00 GMT
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Thanks, the file commando is more useful than I knew.

My libraries are 64 Bit, as they should be.

Cheers, Robin

Subject: mokka "skip events" from stdhep input?
Posted by daniel_jeans on Tue, 17 Jan 2012 15:05:42 GMT
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This probably has a simple answer, but I can't find it!

I have a stdhep file containing many events. To simulate the first 10 of these events with Mokka, I put the following in my macro:

/generator/generator file.stdhep
/run/beamOn 10

I would like to split the simulation of this input file into many jobs. How do I tell Mokka to skip the first 10 events in the file and to simulate events 11-20?

Thanks,
Daniel.

Subject: Re: mokka "skip events" from stdhep input?
Posted by sailer on Tue, 17 Jan 2012 15:13:49 GMT
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In the Mokka steering file

/Mokka/init/startEventNumber <SOMENUMBER>

Then Mokka should say something like

   Skipping first <SOMENUMBER> events

after the input of /run/beamOn

The event numbers start with 0

Cheers,
Andre

EDIT: Commands starts with a "/" of course

Subject: Re: mokka "skip events" from stdhep input?
Posted by gaede on Tue, 17 Jan 2012 15:16:44 GMT
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...

Subject: Re: Problem with installing Mokka
Posted by tonyprice1877 on Tue, 21 Feb 2012 15:57:21 GMT
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Hi,

Sorry to revive this thread but I have been trying to install iLCSoft v01-13-03 and was also having troubles with the MOKKA install. After reading this I removed the same loop and now everything has built fine. I am using mokka-07-07-p05 (release 282??) should this still be an issue or am I doing something wrong?

I am using CLHEP 2.1.0.1 and Geant4.9.4.p03, g++ 4.1.2

Tony

Subject: Re: Problem with installing Mokka
Posted by engels on Tue, 21 Feb 2012 16:22:37 GMT
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Hi Tony,

Steve has already fixed this issue in the 'trunk'. Unfortunately it has not yet been released..

Cheers, Jan.

Subject: Re: Problem with installing Mokka
Posted by tonyprice1877 on Wed, 22 Feb 2012 10:26:26 GMT
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Hi Jan,

Thank you for clearing this up for me. I was mostly just worried about having a wrong setup in my installation but I will not be using Tesla anyway so should not be an issue

Tony

Subject: Re: Problem with installing Mokka
Posted by engels on Wed, 22 Feb 2012 10:31:20 GMT
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Hi Tony,

no problem. Thank you for your feedback anyways :)

Cheers, Jan

Subject: Mokka Simulation Times
Posted by tonyprice1877 on Fri, 24 Feb 2012 12:29:59 GMT
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Hi All,

Me again! (sorry) I now have Mokka 07-07-p05 built and am trying to run some simulations using ILD_O1_v01 on events in a stdhep file

I have copied StandardConfig to a test directory and am trying to run the steer file to simulation the 3 events. Mokka is running but taking ~20 minutes per event! Is this correct or am I doing something wrong? I'm sure I have heard ~1 minute per event so maybe something is wrong with my setup? Can anybody suggest some tests that will allow me to find my problem?

Thanks again,

Tony

Subject: Heavy flavour hadrons in Mokka
Posted by voutsi on Wed, 21 Mar 2012 16:32:19 GMT
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Hi,

I am using the trunk version of Mokka, built with the trunk versions of the lcio, gear etc. While I was trying to produce some heavy flavour jets (for example using the command /gun/particle D*(2010)^+), I ve faced some strange behaviour.
Mokka printed out:

>>> Event 18, scanning sub-detectors

G4Decay::DoIt : decay table not defined for D*(2010)^+

*** G4Exception : No Decay Table
    issued by : G4Decay::DecayIt
Decay table is not defined

I have defined the physics library and the particle table file inside my steering file:

/Mokka/init/physicsListName QGSP_BERT
/Mokka/init/PDGFile particle.tbl

The hadron D*(2010)^+ is defined inside particle.tbl.

Thinking that might something going wrong with my own mokka installation, I tried to use the one located under
 /afs/desy.de/project/ilcsoft/sw/x86_64_gcc41_sl5/v01-13-04/M okka/mokka-07-07-p06

after of course defining the environment by sourcing the corresponding script.
I got exactly the same error message.

Has anyone face something similar?

Thanks,
Yorgos

Subject: Re: Heavy flavour hadrons in Mokka
Posted by gaede on Thu, 22 Mar 2012 09:34:57 GMT
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Hi Yorgos,

geant4 has decay tables defined for the most common particles (pions, kaons, ...) only. The file particles.tbl defines lifetimes and masses of particles only - but not the decay channels.
In order to have the D*(2010)^+ decay, you will have to specify the decay - either in an stdhep file (from a generator) or you would have to create a decay class in geant4 for for it, similar to:

/afs/desy.de/project/ilcsoft/sw/x86_64_gcc41_sl5/geant4/9.5/source/particles/hadrons/mesons/src/G4KaonPlus.cc

 Cheers, Frank.

Subject: Re: Heavy flavour hadrons in Mokka
Posted by voutsi on Thu, 22 Mar 2012 21:50:07 GMT
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Thanks Frank,

defining the decay using an stdhep file solves the issue.

Cheers,

Yorgos

Subject: mokka db server down?
Posted by jeans on Tue, 18 Feb 2014 05:47:08 GMT
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The default Mokka db server seems to be down?

"Connecting to the database "models03"
Unable connect to database "models03": Failed to connect to database. Error: Can't connect to MySQL server on 'pollin1.in2p3.fr' (111)

==========> MOKKA ABORTING <===========
Database connection failed"

The machine pollin1 seems to be alive: it responds to a ping.

Regards,
Daniel.

Subject: mokka db browser
Posted by jeans on Wed, 25 Jan 2017 04:44:21 GMT
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Does anyone know if the online mokka db browser still exists somewhere?

It used to be at:
http://flc.desy.de/ldcoptimization/tools/mokkamodels.php
and was often rather useful...
I find myself wanting to consult it, but it seems to have disappeared.

Thanks,
Daniel.

Subject: Re: mokka db browser
Posted by gaede on Wed, 25 Jan 2017 05:31:24 GMT
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Hi Daniel,

we had to shut down the Mokka databas browser as php is no longer allowed on DESY
web-servers.
You woul have to connect to the database directly and browse it with mysql commands:

mysql -h pollin1.in2p3.fr -u consult -p

 Cheers, Frank.