

hstep =0 Error in G4MagInt_Driver::AccurateAdvance()

Sangsik Yoon
Doris Yangsoo Kim

Soongsil University

Overview

- While generating particle gun 1GeV muons in Belle II Software (basf2), we noticed error messages are generated about 0.2% of simulated events as below:
- [ERROR] In G4MagInt_Driver::AccurateAdvance(), GeomField1001: Proposed step is zero; hstep = 0 ! { module: FullSim }
- [ERROR] In G4MagInt_Driver::AccurateAdvance(), GeomField1001: Proposed step is zero; hstep = 0 ! { module: Ext }
- [ERROR] In G4MagInt_Driver::AccurateAdvance(), GeomField1001: Proposed step is zero; hstep = 0 ! { module: Muid }

Steps to Reproduce

- It would be difficult to reproduce the errors in public, because it requires to run the Belle II software library.
- As far as we understand, we have narrowed down the bug to a certain point, and it will be discussed in the following slides.

Build Date & Hardware

- Geant4 version : 10.1.p2
- Build Date : Jan 28, 2019
- Hardware : Linux version 2.6.32-754.6.3.el6.x86_64
(mockbuild@sl6.fnal.gov) (gcc version 4.4.7 20120313
(Red Hat 4.4.7-23) (GCC))

Additional Information : backtrace

```
#0  G4MagInt_Driver::AccurateAdvance(G4FieldTrack&, double, double, double) ()
    at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-01/src/geant4/source/geometry/magneticfield/src/G4MagIntegratorDriver.cc:167
#1  0x00007ffdddf4f44c in G4ChordFinder::ApproxCurvePointV (this=<optimized out>, CurveA_PointVelocity=..., CurveB_PointVelocity=..., CurrentE_Point=...,
    eps_step=<optimized out>) at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-01/src/geant4/source/geometry/magneticfield/src/G4ChordFinder.cc:616
#2  0x00007ffdddf8635e in G4MultiLevelLocator::EstimateIntersectionPoint(G4FieldTrack const&, G4FieldTrack const&, CLHEP::Hep3Vector const&, G4FieldTrack&, bool&,
    double&, CLHEP::Hep3Vector&) () at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-01/src/geant4/source/geometry/navigation/include/G4VIntersectionLocator.icc:52
#3  0x00007ffdddfaf7b8 in G4PropagatorInField::ComputeStep(G4FieldTrack&, double, double&, G4VPhysicalVolume*) ()
    at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-01/src/geant4/source/geometry/navigation/src/G4PropagatorInField.cc:358
#4  0x00007ffdda00d8f4 in G4Transportation::AlongStepGetPhysicalInteractionLength (this=0x2407bf60, track=..., currentMinimumStep=100,
    currentSafety=@0x7ffffff4e48: 51.071404424621051, selection=<optimized out>)
    at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-01/src/geant4/source/track/include/G4Track.icc:136
#5  0x00007ffdda8e35cb in G4VProcess::AlongStepGPIL (selection=0xa94382c, proposedSafety=@0x7ffffff4e48: 51.071404424621051, currentMinimumStep=<optimized out>,
    previousStepSize=<optimized out>, track=..., this=<optimized out>)
    at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-01/src/geant4/source/processes/management/include/G4VProcess.hh:485
#6  G4SteppingManager::DefinePhysicalStepLength (this=this@entry=0xa9436a0)
    at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-01/src/geant4/source/tracking/src/G4SteppingManager2.cc:243
#7  0x00007ffdda8e1588 in G4SteppingManager::Stepping() () at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-01/src/geant4/source/tracking/src/G4SteppingManager.cc:180
#8  0x00007fffd8b374cf in G4ErrorPropagator::MakeOneStep(G4ErrorFreeTrajState*) ()
    at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-01/src/geant4/source/error_propagation/src/G4ErrorPropagator.cc:376
#9  0x00007fffd8b391d9 in G4ErrorPropagator::PropagateOneStep(G4ErrorTrajState*) ()
    at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-01/src/geant4/source/error_propagation/src/G4ErrorPropagator.cc:244
```

Additional Information : frame #0

G4MagInt_Driver::AccurateAdvance

```
127 G4MagInt_Driver::AccurateAdvance(G4FieldTrack& y_current,  
128             G4double    hstep,  
129             G4double    eps,  
130             G4double hinitial )
```

Additional Information : frame #1

G4ChordFinder::ApproxCurvePointV

```
545  curve_length= CurveB_PointVelocity.GetCurveLength()
546      - CurveA_PointVelocity.GetCurveLength();
612  new_st_length= AE_fraction * curve_length;
616  flntgrDriver->AccurateAdvance(Current_PointVelocity,
617      new_st_length, eps_step );
```

(gdb) p CurveB_PointVelocity

\$1 = (const G4FieldTrack &) @0x7fffffff4420: {SixVector = {-501.63354271165764, 762.80627029431571, -1453.9999999999964, -337.40868139648074, 192.37318288906397,

-597.9641120525406}, fDistanceAlongCurve = 60.873151330988605, fKineticEnergy = 373.57735681140542, fRestMass_c2 = 493.67699999999996, fLabTimeOfFlight = 0,

fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy = 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -0.47320341460795373, dy = 0.26979639837759944,

dz = -0.83862293781284614, static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0, fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}

(gdb) p CurveA_PointVelocity

\$2 = (const G4FieldTrack &) @0x7fffffff4370: {SixVector = {-501.63354271165764, 762.80627029431571, -1453.9999999999964, -337.40868139648074, 192.37318288906397,

-597.9641120525406}, fDistanceAlongCurve = 60.873151330988605, fKineticEnergy = 373.57735681140542, fRestMass_c2 = 493.67699999999996, fLabTimeOfFlight = 0,

fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy = 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -0.47320341460795373, dy = 0.26979639837759944,

dz = -0.83862293781284614, static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0, fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}

We suspect that hstep = 0 occurs due to CurveA_PointVelocity and CurveB_PointVelocity

Additional Information : frame #2
G4MultiLevelLocator::EstimateIntersectionPoint

CurrentA_PointVelocity -> CurveA_PointVelocity(frame #1)
CurrentB_PointVelocity -> CurveB_PointVelocity(frame #1)

(gdb) p CurrentA_PointVelocity

\$3 = {SixVector = {-501.63354271165764, 762.80627029431571, -1453.9999999999964, -337.40868139648074, 192.37318288906397, -597.9641120525406},
fDistanceAlongCurve = 60.873151330988605, fKineticEnergy = 373.57735681140542,
fRestMass_c2 = 493.67699999999996, fLabTimeOfFlight = 0, fProperTimeOfFlight = 0,
fPolarization = {dx = 0, dy = 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -0.47320341460795373, dy = 0.26979639837759944, dz = -0.83862293781284614,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0, fMagn_dipole = 0,
fElec_dipole = 0, fMagneticCharge = 0}}

(gdb) p CurrentB_PointVelocity

\$4 = {SixVector = {-501.63354271165764, 762.80627029431571, -1453.9999999999964, -337.40868139648074, 192.37318288906397, -597.9641120525406},
fDistanceAlongCurve = 60.873151330988605, fKineticEnergy = 373.57735681140542,
fRestMass_c2 = 493.67699999999996, fLabTimeOfFlight = 0, fProperTimeOfFlight = 0,
fPolarization = {dx = 0, dy = 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -0.47320341460795373, dy = 0.26979639837759944, dz = -0.83862293781284614,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0, fMagn_dipole = 0,
fElec_dipole = 0, fMagneticCharge = 0}}

Additional Information : frame #2

G4MultiLevelLocator::EstimateIntersectionPoint

- The values of CurrentA_PointVelocity and CurrentB_PointVelocity change in this function.
- [ERROR] occurs right after the values of CurrentA_PointVelocity and CurrentB_PointVelocity become the same.
- The full record of changes is stored in the following slides. (Backup #1)
- In case it is needed, part of input file for gdb is at the next slide.

Additional Information : part of input script (.input_watch.in)

Breakpoint

br

G4MultiLevelLocator::EstimateIntersectionPoint(G4FieldTrack const&, G4FieldTrack const&, CLHEP::Hep3Vector const&, G4FieldTrack&, bool&, double&, CLHEP::Hep3Vector&)

Iterate loop until the right before the error occurs

set \$i=0

set \$imax=454

while \$i<\$imax

c

set \$i=\$i+1

End

Delete breakpoint G4MultiLevelLocator

del br 2

break whenever the values of A, B change

watch CurrentA_PointVelocity

watch CurrentB_PointVelocity

Iterate loop enough for A, B to have the same values

set \$j=0

set \$jmax=100

while \$j<\$jmax

c

set \$j=\$j+1

print \$j

end

The output is in the following slides.
(Backup #1)

Additional Information : frame #2

- ReEstimateEndPoint (line 449) in “G4MultiLevelLocator.cc” is called right before the values of A, B become the same.

```
// Ensure that the new endpoints are not further apart in space
// than on the curve due to different errors in the integration
//
G4double linDistSq, curveDist;
linDistSq = ( CurrentB_PointVelocity.GetPosition()
             - CurrentA_PointVelocity.GetPosition() ).mag2();
curveDist = CurrentB_PointVelocity.GetCurveLength()
            - CurrentA_PointVelocity.GetCurveLength();

// Change this condition for very strict parameters of propagation
//
if( curveDist*curveDist*(1+2* GetEpsilonStepFor()) < linDistSq )
{
    // Re-integrate to obtain a new B
    //
    G4FieldTrack newEndPointFT=
        ReEstimateEndpoint( CurrentA_PointVelocity,
                            CurrentB_PointVelocity,
                            linDistSq, // to avoid recalculation
                            curveDist );
```



Additional Information : In which detectors (frame #3)

- We were wondering if this error is due to Geometry problems in Belle II Software.
- We added a line to get information of detectors in “G4PropagatorInField.cc” (Please refer to the next slide.)
- The printed values of detectorName when [ERROR] occurs are in the following slides (Backup #2). [ERROR] occurred in various detectors - TOP, ECLBackwardSectorPhysical, SVD.Envelope, physicalCDC, ECLBarrelSectorPhysical_29, ECLBarrelSectorPhysical_13

Additional Information : (Added line in “G4PropagatorInField.cc”)

```
diff --git a/source/geometry/navigation/src/G4PropagatorInField.cc
b/source/geometry/navigation/src/G4PropagatorInField.cc
index 5bd2c8e..c5adac7 100644
--- a/source/geometry/navigation/src/G4PropagatorInField.cc
+++ b/source/geometry/navigation/src/G4PropagatorInField.cc
@@ -179,7 +179,10 @@ G4PropagatorInField::ComputeStep(
    G4cout << " N/A ";
    G4cout << G4endl;
}
-
+
+ // Get Physical Volume Name
+ G4String detectorName = pPhysVol->GetName();
+
+ // Parameters for adaptive Runge-Kutta integration

G4double    h_TrialStepSize;    // 1st Step Size
```

Thank you very much for your help and please contact us if further information is needed.

sangsikyoona@soongsil.ac.kr

dorisykim@ssu.ac.kr

Backup #1

Watchpoint 3: CurrentA_PointVelocity

Watchpoint 4: CurrentB_PointVelocity

Thread 1 "basf2" hit Watchpoint 3: CurrentA_PointVelocity

```
Old value = {SixVector = {1, -1081.154059175552, -10, -404, -1, 0},
fDistanceAlongCurve = 1.2246467991473532e-16, fKineticEnergy = 0,
fRestMass_c2 = 1, fLabTimeOfFlight = 0, fProperTimeOfFlight = -
1.2246467991473532e-16, fPolarization = {dx = 0, dy = -1, dz = -0.25,
static tolerance = 2.22045e-14}, fMomentumDir = {dx = 3.3692296422921282,
dy = 0.73810363946626134, dz = 4.9406564584124654e-324, static tolerance =
2.22045e-14}, fChargeState = {fCharge = 2.3178094979379628e-310, fSpin =
6.9533558054105254e-310, fMagn_dipole = 62.096150798972324, fElec_dipole =
-505.48883205120251, fMagneticCharge = 764.98336889546647}}
New value = {SixVector = {1, -1081.154059175552, -10, -404, -1, 0},
fDistanceAlongCurve = 0, fKineticEnergy = 0, fRestMass_c2 = 1,
fLabTimeOfFlight = 0, fProperTimeOfFlight = -1.2246467991473532e-16,
fPolarization = {dx = 0, dy = -1, dz = -0.25, static tolerance = 2.22045e-
14}, fMomentumDir = {dx = 3.3692296422921282, dy = 0.73810363946626134, dz
= 4.9406564584124654e-324, static tolerance = 2.22045e-14}, fChargeState =
{fCharge = 2.3178094979379628e-310, fSpin = 6.9533558054105254e-310,
fMagn_dipole = 62.096150798972324, fElec_dipole = -505.48883205120251,
fMagneticCharge = 764.98336889546647}}
0x00002aaac7e835eb in G4FieldTrack::G4FieldTrack (rStVec=...,
this=0x7fffffff3ad0) at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4MultiLevelLocator.cc:107
107      G4FieldTrack CurrentA_PointVelocity = CurveStartPointVelocity;
$1 = 1
```

Thread 1 "basf2" hit Watchpoint 3: CurrentA_PointVelocity

```
Old value = {SixVector = {1, -1081.154059175552, -10, -404, -1, 0},
fDistanceAlongCurve = 0, fKineticEnergy = 0, fRestMass_c2 = 1,
fLabTimeOfFlight = 0, fProperTimeOfFlight = -1.2246467991473532e-16,
fPolarization = {dx = 0, dy = -1, dz = -0.25, static tolerance = 2.22045e-
14}, fMomentumDir = {dx = 3.3692296422921282, dy = 0.73810363946626134, dz
= 4.9406564584124654e-324, static tolerance = 2.22045e-14}, fChargeState =
{fCharge = 2.3178094979379628e-310, fSpin = 6.9533558054105254e-310,
fMagn_dipole = 62.096150798972324, fElec_dipole = -505.48883205120251,
fMagneticCharge = 764.98336889546647}}
New value = {SixVector = {1, -1081.154059175552, -10, -404, -1, 0},
fDistanceAlongCurve = 0, fKineticEnergy = 373.57735549306739, fRestMass_c2
= 1, fLabTimeOfFlight = 0, fProperTimeOfFlight = -1.2246467991473532e-16,
fPolarization = {dx = 0, dy = -1, dz = -0.25, static tolerance = 2.22045e-
14}, fMomentumDir = {dx = 3.3692296422921282, dy = 0.73810363946626134, dz
= 4.9406564584124654e-324, static tolerance = 2.22045e-14}, fChargeState =
{fCharge = 2.3178094979379628e-310, fSpin = 6.9533558054105254e-310,
fMagn_dipole = 62.096150798972324, fElec_dipole = -505.48883205120251,
fMagneticCharge = 764.98336889546647}}
0x00002aaac7e83601 in G4FieldTrack::G4FieldTrack (rStVec=...,
this=0x7fffffff3ad0) at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4MultiLevelLocator.cc:107
107      G4FieldTrack CurrentA_PointVelocity = CurveStartPointVelocity;
$2 = 2
```

Thread 1 "basf2" hit Watchpoint 3: CurrentA_PointVelocity

```
Old value = {SixVector = {1, -1081.154059175552, -10, -404, -1, 0},
fDistanceAlongCurve = 0, fKineticEnergy = 373.57735549306739, fRestMass_c2
= 1, fLabTimeOfFlight = 0, fProperTimeOfFlight = -1.2246467991473532e-16,
fPolarization = {dx = 0, dy = -1, dz = -0.25, static tolerance = 2.22045e-
14}, fMomentumDir = {dx = 3.3692296422921282, dy = 0.73810363946626134, dz
= 4.9406564584124654e-324, static tolerance = 2.22045e-14}, fChargeState =
{fCharge = 2.3178094979379628e-310, fSpin = 6.9533558054105254e-310,
fMagn_dipole = 62.096150798972324, fElec_dipole = -505.48883205120251,
fMagneticCharge = 764.98336889546647}}
New value = {SixVector = {1, -1081.154059175552, -10, -404, -1, 0},
fDistanceAlongCurve = 0, fKineticEnergy = 373.57735549306739, fRestMass_c2
= 493.67699999999996, fLabTimeOfFlight = 0, fProperTimeOfFlight = -
1.2246467991473532e-16, fPolarization = {dx = 0, dy = -1, dz = -0.25,
static tolerance = 2.22045e-14}, fMomentumDir = {dx = 3.3692296422921282,
dy = 0.73810363946626134, dz = 4.9406564584124654e-324, static tolerance =
2.22045e-14}, fChargeState = {fCharge = 2.3178094979379628e-310, fSpin =
6.9533558054105254e-310, fMagn_dipole = 62.096150798972324, fElec_dipole =
-505.48883205120251, fMagneticCharge = 764.98336889546647}}
0x00002aaac7e8360f in G4FieldTrack::G4FieldTrack (rStVec=...,
this=0x7fffffff3ad0) at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4MultiLevelLocator.cc:107
107      G4FieldTrack CurrentA_PointVelocity = CurveStartPointVelocity;
$3 = 3
```

Thread 1 "basf2" hit Watchpoint 3: CurrentA_PointVelocity

```
Old value = {SixVector = {1, -1081.154059175552, -10, -404, -1, 0},
fDistanceAlongCurve = 0, fKineticEnergy = 373.57735549306739, fRestMass_c2
= 493.67699999999996, fLabTimeOfFlight = 0, fProperTimeOfFlight = -
1.2246467991473532e-16, fPolarization = {dx = 0, dy = -1, dz = -0.25,
static tolerance = 2.22045e-14}, fMomentumDir = {dx = 3.3692296422921282,
dy = 0.73810363946626134, dz = 4.9406564584124654e-324, static tolerance =
2.22045e-14}, fChargeState = {fCharge = 2.3178094979379628e-310, fSpin =
6.9533558054105254e-310, fMagn_dipole = 62.096150798972324, fElec_dipole =
-505.48883205120251, fMagneticCharge = 764.98336889546647}}
New value = {SixVector = {1, -1081.154059175552, -10, -404, -1, 0},
fDistanceAlongCurve = 0, fKineticEnergy = 373.57735549306739, fRestMass_c2
= 493.67699999999996, fLabTimeOfFlight = 5.4118285644692099,
fProperTimeOfFlight = -1.2246467991473532e-16, fPolarization = {dx = 0, dy
= -1, dz = -0.25, static tolerance = 2.22045e-14}, fMomentumDir = {dx =
3.3692296422921282, dy = 0.73810363946626134, dz = 4.9406564584124654e-
324, static tolerance = 2.22045e-14}, fChargeState = {fCharge =
2.3178094979379628e-310, fSpin = 6.9533558054105254e-310, fMagn_dipole =
62.096150798972324, fElec_dipole = -505.48883205120251, fMagneticCharge =
764.98336889546647}}
0x00002aaac7e8361d in G4FieldTrack::G4FieldTrack (rStVec=...,
this=0x7fffffff3ad0) at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4MultiLevelLocator.cc:107
107      G4FieldTrack CurrentA_PointVelocity = CurveStartPointVelocity;
$4 = 4
```


Thread 1 "basf2" hit Watchpoint 3: CurrentA_PointVelocity

Old value = {SixVector = {1, -1081.154059175552, -10, -404, -1, 0},
fDistanceAlongCurve = 0, fKineticEnergy = 373.57735549306739, fRestMass_c2
= 493.67699999999996, fLabTimeOfFlight = 5.4118285644692099,
fProperTimeOfFlight = -1.2246467991473532e-16, fPolarization = {dx = 0, dy
= -1, dz = -0.25, static tolerance = 2.22045e-14}, fMomentumDir = {dx =
3.3692296422921282, dy = 0.73810363946626134, dz = 4.9406564584124654e-
324, static tolerance = 2.22045e-14}, fChargeState = {fCharge =
2.3178094979379628e-310, fSpin = 6.9533558054105254e-310, fMagn_dipole =
62.096150798972324, fElec_dipole = -505.48883205120251, fMagneticCharge =
764.98336889546647}}

New value = {SixVector = {1, -1081.154059175552, -10, -404, -1, 0},
fDistanceAlongCurve = 0, fKineticEnergy = 373.57735549306739, fRestMass_c2
= 493.67699999999996, fLabTimeOfFlight = 5.4118285644692099,
fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy = -1, dz = -0.25,
static tolerance = 2.22045e-14}, fMomentumDir = {dx = 3.3692296422921282,
dy = 0.73810363946626134, dz = 4.9406564584124654e-324, static tolerance =
2.22045e-14}, fChargeState = {fCharge = 2.3178094979379628e-310, fSpin =
6.9533558054105254e-310, fMagn_dipole = 62.096150798972324, fElec_dipole =
-505.48883205120251, fMagneticCharge = 764.98336889546647}}

G4FieldTrack::G4FieldTrack (rStVec=..., this=0x7fffffff3ad0) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:41
41 fChargeState(rStVec.fChargeState)
\$5 = 5

Thread 1 "basf2" hit Watchpoint 3: CurrentA_PointVelocity

Old value = {SixVector = {1, -1081.154059175552, -10, -404, -1, 0},
fDistanceAlongCurve = 0, fKineticEnergy = 373.57735549306739, fRestMass_c2
= 493.67699999999996, fLabTimeOfFlight = 5.4118285644692099,
fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy = -1, dz = -0.25,
static tolerance = 2.22045e-14}, fMomentumDir = {dx = 3.3692296422921282,
dy = 0.73810363946626134, dz = 4.9406564584124654e-324, static tolerance =
2.22045e-14}, fChargeState = {fCharge = 2.3178094979379628e-310, fSpin =
6.9533558054105254e-310, fMagn_dipole = 62.096150798972324, fElec_dipole =
-505.48883205120251, fMagneticCharge = 764.98336889546647}}

New value = {SixVector = {1, -1081.154059175552, -10, -404, -1, 0},
fDistanceAlongCurve = 0, fKineticEnergy = 373.57735549306739, fRestMass_c2
= 493.67699999999996, fLabTimeOfFlight = 5.4118285644692099,
fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy = 0, dz = -0.25,
static tolerance = 2.22045e-14}, fMomentumDir = {dx = 3.3692296422921282,
dy = 0.73810363946626134, dz = 4.9406564584124654e-324, static tolerance =
2.22045e-14}, fChargeState = {fCharge = 2.3178094979379628e-310, fSpin =
6.9533558054105254e-310, fMagn_dipole = 62.096150798972324, fElec_dipole =
-505.48883205120251, fMagneticCharge = 764.98336889546647}}

0x00002aaac7e83647 in CLHEP::Hep3Vector::Hep3Vector (p=...,
this=0x7fffffff3b28) at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4MultiLevelLocator.cc:107
107 G4FieldTrack CurrentA_PointVelocity = CurveStartPointVelocity;
\$6 = 6

Thread 1 "basf2" hit Watchpoint 3: CurrentA_PointVelocity

```

Old value = {SixVector = {1, -1081.154059175552, -10, -404, -1, 0},
fDistanceAlongCurve = 0, fKineticEnergy = 373.57735549306739, fRestMass_c2
= 493.676999999999996, fLabTimeOfFlight = 5.4118285644692099,
fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy = 0, dz = -0.25,
static tolerance = 2.22045e-14}, fMomentumDir = {dx = 3.3692296422921282,
dy = 0.73810363946626134, dz = 4.9406564584124654e-324, static tolerance =
2.22045e-14}, fChargeState = {fCharge = 2.3178094979379628e-310, fSpin =
6.9533558054105254e-310, fMagn_dipole = 62.096150798972324, fElec_dipole =
-505.48883205120251, fMagneticCharge = 764.98336889546647}}
New value = {SixVector = {1, -1081.154059175552, -10, -404, -1, 0},
fDistanceAlongCurve = 0, fKineticEnergy = 373.57735549306739, fRestMass_c2
= 493.676999999999996, fLabTimeOfFlight = 5.4118285644692099,
fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy = 0, dz = 0, static
tolerance = 2.22045e-14}, fMomentumDir = {dx = 3.3692296422921282, dy =
0.73810363946626134, dz = 4.9406564584124654e-324, static tolerance =
2.22045e-14}, fChargeState = {fCharge = 2.3178094979379628e-310, fSpin =
6.9533558054105254e-310, fMagn_dipole = 62.096150798972324, fElec_dipole =
-505.48883205120251, fMagneticCharge = 764.98336889546647}}
G4FieldTrack::G4FieldTrack (rStVec=..., this=0x7fffffff3ad0) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:41
41      fChargeState( rStVec.fChargeState )
$7 = 7

```

Thread 1 "basf2" hit Watchpoint 3: CurrentA_PointVelocity

```

Old value = {SixVector = {1, -1081.154059175552, -10, -404, -1, 0},
fDistanceAlongCurve = 0, fKineticEnergy = 373.57735549306739, fRestMass_c2
= 493.676999999999996, fLabTimeOfFlight = 5.4118285644692099,
fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy = 0, dz = 0, static
tolerance = 2.22045e-14}, fMomentumDir = {dx = 3.3692296422921282, dy =
0.73810363946626134, dz = 4.9406564584124654e-324, static tolerance =
2.22045e-14}, fChargeState = {fCharge = 2.3178094979379628e-310, fSpin =
6.9533558054105254e-310, fMagn_dipole = 62.096150798972324, fElec_dipole =
-505.48883205120251, fMagneticCharge = 764.98336889546647}}
New value = {SixVector = {1, -1081.154059175552, -10, -404, -1, 0},
fDistanceAlongCurve = 0, fKineticEnergy = 373.57735549306739, fRestMass_c2
= 493.676999999999996, fLabTimeOfFlight = 5.4118285644692099,
fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy = 0, dz = 0, static
tolerance = 2.22045e-14}, fMomentumDir = {dx = -0.46027170570111825, dy =
0.73810363946626134, dz = 4.9406564584124654e-324, static tolerance =
2.22045e-14}, fChargeState = {fCharge = 2.3178094979379628e-310, fSpin =
6.9533558054105254e-310, fMagn_dipole = 62.096150798972324, fElec_dipole =
-505.48883205120251, fMagneticCharge = 764.98336889546647}}
0x00002aaac7e83663 in CLHEP::Hep3Vector::Hep3Vector (p=...,
this=0x7fffffff3b40) at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4MultiLevelLocator.cc:107
107      G4FieldTrack CurrentA_PointVelocity = CurveStartPointVelocity;
$8 = 8

```

Thread 1 "basf2" hit Watchpoint 3: CurrentA_PointVelocity

```

Old value = {SixVector = {1, -1081.154059175552, -10, -404, -1, 0},
fDistanceAlongCurve = 0, fKineticEnergy = 373.57735549306739, fRestMass_c2
= 493.676999999999996, fLabTimeOfFlight = 5.4118285644692099,
fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy = 0, dz = 0, static
tolerance = 2.22045e-14}, fMomentumDir = {dx = -0.46027170570111825, dy =
0.73810363946626134, dz = 4.9406564584124654e-324, static tolerance =
2.22045e-14}, fChargeState = {fCharge = 2.3178094979379628e-310, fSpin =
6.9533558054105254e-310, fMagn_dipole = 62.096150798972324, fElec_dipole =
-505.48883205120251, fMagneticCharge = 764.98336889546647}}
New value = {SixVector = {1, -1081.154059175552, -10, -404, -1, 0},
fDistanceAlongCurve = 0, fKineticEnergy = 373.57735549306739, fRestMass_c2
= 493.676999999999996, fLabTimeOfFlight = 5.4118285644692099,
fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy = 0, dz = 0, static
tolerance = 2.22045e-14}, fMomentumDir = {dx = -0.46027170570111825, dy =
0.28992383456692367, dz = 4.9406564584124654e-324, static tolerance =
2.22045e-14}, fChargeState = {fCharge = 2.3178094979379628e-310, fSpin =
6.9533558054105254e-310, fMagn_dipole = 62.096150798972324, fElec_dipole =
-505.48883205120251, fMagneticCharge = 764.98336889546647}}
0x00002aaac7e83671 in CLHEP::Hep3Vector::Hep3Vector (p=...,
this=0x7ffffffffff3b40) at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4MultiLevelLocator.cc:107
107      G4FieldTrack CurrentA_PointVelocity = CurveStartPointVelocity;
$9 = 9

```

Thread 1 "basf2" hit Watchpoint 3: CurrentA_PointVelocity

```

Old value = {SixVector = {1, -1081.154059175552, -10, -404, -1, 0},
fDistanceAlongCurve = 0, fKineticEnergy = 373.57735549306739, fRestMass_c2
= 493.676999999999996, fLabTimeOfFlight = 5.4118285644692099,
fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy = 0, dz = 0, static
tolerance = 2.22045e-14}, fMomentumDir = {dx = -0.46027170570111825, dy =
0.28992383456692367, dz = 4.9406564584124654e-324, static tolerance =
2.22045e-14}, fChargeState = {fCharge = 2.3178094979379628e-310, fSpin =
6.9533558054105254e-310, fMagn_dipole = 62.096150798972324, fElec_dipole =
-505.48883205120251, fMagneticCharge = 764.98336889546647}}
New value = {SixVector = {1, -1081.154059175552, -10, -404, -1, 0},
fDistanceAlongCurve = 0, fKineticEnergy = 373.57735549306739, fRestMass_c2
= 493.676999999999996, fLabTimeOfFlight = 5.4118285644692099,
fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy = 0, dz = 0, static
tolerance = 2.22045e-14}, fMomentumDir = {dx = -0.46027170570111825, dy =
0.28992383456692367, dz = -0.8391031683178144, static tolerance =
2.22045e-14}, fChargeState = {fCharge = 2.3178094979379628e-310, fSpin =
6.9533558054105254e-310, fMagn_dipole = 62.096150798972324, fElec_dipole =
-505.48883205120251, fMagneticCharge = 764.98336889546647}}
G4FieldTrack::G4FieldTrack (rStVec=..., this=0x7ffffffffff3ad0) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:41
41      fChargeState( rStVec.fChargeState )
$10 = 10

```

Thread 1 "basf2" hit Watchpoint 3: CurrentA_PointVelocity

```

Old value = {SixVector = {1, -1081.154059175552, -10, -404, -1, 0},
fDistanceAlongCurve = 0, fKineticEnergy = 373.57735549306739, fRestMass_c2

```

```

= 493.676999999999996, fLabTimeOfFlight = 5.4118285644692099,
fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy = 0, dz = 0, static
tolerance = 2.22045e-14}, fMomentumDir = {dx = -0.46027170570111825, dy =
0.28992383456692367, dz = -0.8391031683178144, static tolerance =
2.22045e-14}, fChargeState = {fCharge = 2.3178094979379628e-310, fSpin =
6.9533558054105254e-310, fMagn_dipole = 62.096150798972324, fElec_dipole =
-505.48883205120251, fMagneticCharge = 764.98336889546647}}
New value = {SixVector = {1, -1081.154059175552, -10, -404, -1, 0},
fDistanceAlongCurve = 0, fKineticEnergy = 373.57735549306739, fRestMass_c2
= 493.676999999999996, fLabTimeOfFlight = 5.4118285644692099,
fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy = 0, dz = 0, static
tolerance = 2.22045e-14}, fMomentumDir = {dx = -0.46027170570111825, dy =
0.28992383456692367, dz = -0.8391031683178144, static tolerance =
2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 6.9533558054105254e-
310, fMagn_dipole = 62.096150798972324, fElec_dipole = -
505.48883205120251, fMagneticCharge = 764.98336889546647}}
G4MultiLevelLocator::EstimateIntersectionPoint(G4FieldTrack const&,
G4FieldTrack const&, CLHEP::Hep3Vector const&, G4FieldTrack&, bool&,
double&, CLHEP::Hep3Vector&) () at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4MultiLevelLocator.cc:108
108      G4FieldTrack  CurrentB_PointVelocity = CurveEndPointVelocity;
$11 = 11

```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```

Old value = {SixVector = {-1460.8097842644372, -339.29961174636105,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 0, fKineticEnergy = 0,
fRestMass_c2 = 0, fLabTimeOfFlight = 0, fProperTimeOfFlight = -
0.46949425535313183, fPolarization = {dx = 0.27521927977757926, dy = -
0.8389454643951052, dz = -0.14638586571610662, static tolerance =
2.22045e-14}, fMomentumDir = {dx = -0.23600975700361937, dy =
0.0044971787031588802, dz = -0.22546613355381709, static tolerance =
2.22045e-14}, fChargeState = {fCharge = 0.0024957366143401548, fSpin =
6.9533558053591426e-310, fMagn_dipole = 2.1681280362709759e-317,
fElec_dipole = 4.9406564584124654e-323, fMagneticCharge =
6.9533558053733716e-310}}
New value = {SixVector = {-1460.8097842644372, -339.29961174636105,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 0, fRestMass_c2 = 0, fLabTimeOfFlight = 0,
fProperTimeOfFlight = -0.46949425535313183, fPolarization = {dx =
0.27521927977757926, dy = -0.8389454643951052, dz = -0.14638586571610662,
static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.23600975700361937, dy = 0.0044971787031588802, dz = -
0.22546613355381709, static tolerance = 2.22045e-14}, fChargeState =
{fCharge = 0.0024957366143401548, fSpin = 6.9533558053591426e-310,
fMagn_dipole = 2.1681280362709759e-317, fElec_dipole =
4.9406564584124654e-323, fMagneticCharge = 6.9533558053733716e-310}}
0x00002aaac7e836bd in G4FieldTrack::G4FieldTrack (rStVec=...,
this=<optimized out>) at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4ChargeState.hh:138
138      fSpin
      = right.fSpin;

```

\$12 = 12

Thread 1 "basf2" hit Watchpoint 3: CurrentA_PointVelocity

```
Old value = {SixVector = {1, -1081.154059175552, -10, -404, -1, 0},
fDistanceAlongCurve = 0, fKineticEnergy = 373.57735549306739, fRestMass_c2
= 493.67699999999996, fLabTimeOfFlight = 5.4118285644692099,
fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy = 0, dz = 0, static
tolerance = 2.22045e-14}, fMomentumDir = {dx = -0.46027170570111825, dy =
0.28992383456692367, dz = -0.8391031683178144, static tolerance =
2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 6.9533558054105254e-
310, fMagn_dipole = 62.096150798972324, fElec_dipole = -
505.48883205120251, fMagneticCharge = 764.98336889546647}}
New value = {SixVector = {1, -1081.154059175552, -10, -404, -1, 0},
fDistanceAlongCurve = 0, fKineticEnergy = 373.57735549306739, fRestMass_c2
= 493.67699999999996, fLabTimeOfFlight = 5.4118285644692099,
fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy = 0, dz = 0, static
tolerance = 2.22045e-14}, fMomentumDir = {dx = -0.46027170570111825, dy =
0.28992383456692367, dz = -0.8391031683178144, static tolerance =
2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0, fMagn_dipole =
62.096150798972324, fElec_dipole = -505.48883205120251, fMagneticCharge =
764.98336889546647}}
G4ChargeState::G4ChargeState (right=..., this=0x7fffffff3b58) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4ChargeState.hh:139
139     fMagn_dipole     = right.fMagn_dipole;
$13 = 13
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-1460.8097842644372, -339.29961174636105,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 0, fRestMass_c2 = 0, fLabTimeOfFlight = 0,
fProperTimeOfFlight = -0.46949425535313183, fPolarization = {dx =
0.27521927977757926, dy = -0.8389454643951052, dz = -0.14638586571610662,
static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.23600975700361937, dy = 0.0044971787031588802, dz = -
0.22546613355381709, static tolerance = 2.22045e-14}, fChargeState =
{fCharge = 0.0024957366143401548, fSpin = 6.9533558053591426e-310,
fMagn_dipole = 2.1681280362709759e-317, fElec_dipole =
4.9406564584124654e-323, fMagneticCharge = 6.9533558053733716e-310}}
New value = {SixVector = {-1460.8097842644372, -339.29961174636105,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 0, fLabTimeOfFlight =
0, fProperTimeOfFlight = -0.46949425535313183, fPolarization = {dx =
0.27521927977757926, dy = -0.8389454643951052, dz = -0.14638586571610662,
static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.23600975700361937, dy = 0.0044971787031588802, dz = -
0.22546613355381709, static tolerance = 2.22045e-14}, fChargeState =
{fCharge = 0.0024957366143401548, fSpin = 6.9533558053591426e-310,
fMagn_dipole = 2.1681280362709759e-317, fElec_dipole =
4.9406564584124654e-323, fMagneticCharge = 6.9533558053733716e-310}}
```

```
G4MultiLevelLocator::EstimateIntersectionPoint(G4FieldTrack const&,
G4FieldTrack const&, CLHEP::Hep3Vector const&, G4FieldTrack&, bool&,
double&, CLHEP::Hep3Vector&) () at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4MultiLevelLocator.cc:107
107      G4FieldTrack CurrentA_PointVelocity = CurveStartPointVelocity;
$14 = 14
```

Thread 1 "basf2" hit Watchpoint 3: CurrentA_PointVelocity

```
Old value = {SixVector = {1, -1081.154059175552, -10, -404, -1, 0},
fDistanceAlongCurve = 0, fKineticEnergy = 373.57735549306739, fRestMass_c2
= 493.67699999999996, fLabTimeOfFlight = 5.4118285644692099,
fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy = 0, dz = 0, static
tolerance = 2.22045e-14}, fMomentumDir = {dx = -0.46027170570111825, dy =
0.28992383456692367, dz = -0.8391031683178144, static tolerance =
2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0, fMagn_dipole =
62.096150798972324, fElec_dipole = -505.48883205120251, fMagneticCharge =
764.98336889546647}}
New value = {SixVector = {1, -1081.154059175552, -10, -404, -1, 0},
fDistanceAlongCurve = 0, fKineticEnergy = 373.57735549306739, fRestMass_c2
= 493.67699999999996, fLabTimeOfFlight = 5.4118285644692099,
fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy = 0, dz = 0, static
tolerance = 2.22045e-14}, fMomentumDir = {dx = -0.46027170570111825, dy =
0.28992383456692367, dz = -0.8391031683178144, static tolerance =
2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0, fMagn_dipole = 0,
fElec_dipole = -505.48883205120251, fMagneticCharge = 764.98336889546647}}
G4ChargeState::G4ChargeState (right=..., this=0x7fffffff3b58) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4ChargeState.hh:140
140      fElec_dipole      = right.fElec_dipole;
$15 = 15
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-1460.8097842644372, -339.29961174636105,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 0, fLabTimeOfFlight =
0, fProperTimeOfFlight = -0.46949425535313183, fPolarization = {dx =
0.27521927977757926, dy = -0.8389454643951052, dz = -0.14638586571610662,
static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.23600975700361937, dy = 0.0044971787031588802, dz = -
0.22546613355381709, static tolerance = 2.22045e-14}, fChargeState =
{fCharge = 0.0024957366143401548, fSpin = 6.9533558053591426e-310,
fMagn_dipole = 2.1681280362709759e-317, fElec_dipole =
4.9406564584124654e-323, fMagneticCharge = 6.9533558053733716e-310}}
New value = {SixVector = {-1460.8097842644372, -339.29961174636105,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = -0.46949425535313183,
fPolarization = {dx = 0.27521927977757926, dy = -0.8389454643951052, dz =
-0.14638586571610662, static tolerance = 2.22045e-14}, fMomentumDir = {dx
```

```
= -0.23600975700361937, dy = 0.0044971787031588802, dz = -
0.22546613355381709, static tolerance = 2.22045e-14}, fChargeState =
{fCharge = 0.0024957366143401548, fSpin = 6.9533558053591426e-310,
fMagn_dipole = 2.1681280362709759e-317, fElec_dipole =
4.9406564584124654e-323, fMagneticCharge = 6.9533558053733716e-310}}
G4MultiLevelLocator::EstimateIntersectionPoint(G4FieldTrack const&,
G4FieldTrack const&, CLHEP::Hep3Vector const&, G4FieldTrack&, bool&,
double&, CLHEP::Hep3Vector&) () at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4MultiLevelLocator.cc:107
107      G4FieldTrack CurrentA_PointVelocity = CurveStartPointVelocity;
$16 = 16
```

Thread 1 "basf2" hit Watchpoint 3: CurrentA_PointVelocity

```
Old value = {SixVector = {1, -1081.154059175552, -10, -404, -1, 0},
fDistanceAlongCurve = 0, fKineticEnergy = 373.57735549306739, fRestMass_c2
= 493.67699999999996, fLabTimeOfFlight = 5.4118285644692099,
fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy = 0, dz = 0, static
tolerance = 2.22045e-14}, fMomentumDir = {dx = -0.46027170570111825, dy =
0.28992383456692367, dz = -0.8391031683178144, static tolerance =
2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0, fMagn_dipole = 0,
fElec_dipole = -505.48883205120251, fMagneticCharge = 764.98336889546647}}
New value = {SixVector = {1, -1081.154059175552, -10, -404, -1, 0},
fDistanceAlongCurve = 0, fKineticEnergy = 373.57735549306739, fRestMass_c2
= 493.67699999999996, fLabTimeOfFlight = 5.4118285644692099,
fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy = 0, dz = 0, static
tolerance = 2.22045e-14}, fMomentumDir = {dx = -0.46027170570111825, dy =
0.28992383456692367, dz = -0.8391031683178144, static tolerance =
2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0, fMagn_dipole = 0,
fElec_dipole = 0, fMagneticCharge = 764.98336889546647}}
G4ChargeState::G4ChargeState (right=..., this=0x7fffffff3b58) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4ChargeState.hh:141
141      fMagneticCharge = right.fMagneticCharge;
$17 = 17
```

Thread 1 "basf2" hit Watchpoint 3: CurrentA_PointVelocity

```
Old value = {SixVector = {1, -1081.154059175552, -10, -404, -1, 0},
fDistanceAlongCurve = 0, fKineticEnergy = 373.57735549306739, fRestMass_c2
= 493.67699999999996, fLabTimeOfFlight = 5.4118285644692099,
fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy = 0, dz = 0, static
tolerance = 2.22045e-14}, fMomentumDir = {dx = -0.46027170570111825, dy =
0.28992383456692367, dz = -0.8391031683178144, static tolerance =
2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0, fMagn_dipole = 0,
fElec_dipole = 0, fMagneticCharge = 764.98336889546647}}
New value = {SixVector = {1, -1081.154059175552, -10, -404, -1, 0},
fDistanceAlongCurve = 0, fKineticEnergy = 373.57735549306739, fRestMass_c2
= 493.67699999999996, fLabTimeOfFlight = 5.4118285644692099,
fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy = 0, dz = 0, static
tolerance = 2.22045e-14}, fMomentumDir = {dx = -0.46027170570111825, dy =
0.28992383456692367, dz = -0.8391031683178144, static tolerance =
```

```
2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0, fMagn_dipole = 0,
fElec_dipole = 0, fMagneticCharge = 0}}
G4FieldTrack::G4FieldTrack (rStVec=..., this=0x7fffffff3ad0) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:43
43     SixVector[0]= rStVec.SixVector[0];
$18 = 18
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-1460.8097842644372, -339.29961174636105,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = -0.46949425535313183,
fPolarization = {dx = 0.27521927977757926, dy = -0.8389454643951052, dz =
-0.14638586571610662, static tolerance = 2.22045e-14}, fMomentumDir = {dx =
-0.23600975700361937, dy = 0.0044971787031588802, dz = -
0.22546613355381709, static tolerance = 2.22045e-14}, fChargeState =
{fCharge = 0.0024957366143401548, fSpin = 6.9533558053591426e-310,
fMagn_dipole = 2.1681280362709759e-317, fElec_dipole =
4.9406564584124654e-323, fMagneticCharge = 6.9533558053733716e-310}}
New value = {SixVector = {-1460.8097842644372, -339.29961174636105,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx =
0.27521927977757926, dy = -0.8389454643951052, dz = -0.14638586571610662,
static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.23600975700361937, dy = 0.0044971787031588802, dz = -
0.22546613355381709, static tolerance = 2.22045e-14}, fChargeState =
{fCharge = 0.0024957366143401548, fSpin = 6.9533558053591426e-310,
fMagn_dipole = 2.1681280362709759e-317, fElec_dipole =
4.9406564584124654e-323, fMagneticCharge = 6.9533558053733716e-310}}
G4MultiLevelLocator::EstimateIntersectionPoint(G4FieldTrack const&,
G4FieldTrack const&, CLHEP::Hep3Vector const&, G4FieldTrack&, bool&,
double&, CLHEP::Hep3Vector&) () at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4MultiLevelLocator.cc:107
107     G4FieldTrack CurrentA_PointVelocity = CurveStartPointVelocity;
$19 = 19
```

Thread 1 "basf2" hit Watchpoint 3: CurrentA_PointVelocity

```
Old value = {SixVector = {1, -1081.154059175552, -10, -404, -1, 0},
fDistanceAlongCurve = 0, fKineticEnergy = 373.57735549306739, fRestMass_c2
= 493.67699999999996, fLabTimeOfFlight = 5.4118285644692099,
fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy = 0, dz = 0, static
tolerance = 2.22045e-14}, fMomentumDir = {dx = -0.46027170570111825, dy =
0.28992383456692367, dz = -0.8391031683178144, static tolerance =
2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0, fMagn_dipole = 0,
fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-473.23861678701309, -1081.154059175552, -10, -
404, -1, 0}, fDistanceAlongCurve = 0, fKineticEnergy = 373.57735549306739,
```



```
fRestMass_c2 = 493.67699999999996, fLabTimeOfFlight = 5.4118285644692099,
fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy = 0, dz = 0, static
tolerance = 2.22045e-14}, fMomentumDir = {dx = -0.46027170570111825, dy =
0.28992383456692367, dz = -0.8391031683178144, static tolerance =
2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0, fMagn_dipole = 0,
fElec_dipole = 0, fMagneticCharge = 0}}
G4FieldTrack::G4FieldTrack (rStVec=..., this=0x7fffffff3ad0) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:44
44     SixVector[1]= rStVec.SixVector[1];
$20 = 20
```

Thread 1 "basf2" hit Watchpoint 3: CurrentA_PointVelocity

```
Old value = {SixVector = {-473.23861678701309, -1081.154059175552, -10, -
404, -1, 0}, fDistanceAlongCurve = 0, fKineticEnergy = 373.57735549306739,
fRestMass_c2 = 493.67699999999996, fLabTimeOfFlight = 5.4118285644692099,
fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy = 0, dz = 0, static
tolerance = 2.22045e-14}, fMomentumDir = {dx = -0.46027170570111825, dy =
0.28992383456692367, dz = -0.8391031683178144, static tolerance =
2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0, fMagn_dipole = 0,
fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-473.23861678701309, 745.75309201452853, -10, -
404, -1, 0}, fDistanceAlongCurve = 0, fKineticEnergy = 373.57735549306739,
fRestMass_c2 = 493.67699999999996, fLabTimeOfFlight = 5.4118285644692099,
fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy = 0, dz = 0, static
tolerance = 2.22045e-14}, fMomentumDir = {dx = -0.46027170570111825, dy =
0.28992383456692367, dz = -0.8391031683178144, static tolerance =
2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0, fMagn_dipole = 0,
fElec_dipole = 0, fMagneticCharge = 0}}
G4FieldTrack::G4FieldTrack (rStVec=..., this=0x7fffffff3ad0) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:45
45     SixVector[2]= rStVec.SixVector[2];
$21 = 21
```

Thread 1 "basf2" hit Watchpoint 3: CurrentA_PointVelocity

```
Old value = {SixVector = {-473.23861678701309, 745.75309201452853, -10, -
404, -1, 0}, fDistanceAlongCurve = 0, fKineticEnergy = 373.57735549306739,
fRestMass_c2 = 493.67699999999996, fLabTimeOfFlight = 5.4118285644692099,
fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy = 0, dz = 0, static
tolerance = 2.22045e-14}, fMomentumDir = {dx = -0.46027170570111825, dy =
0.28992383456692367, dz = -0.8391031683178144, static tolerance =
2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0, fMagn_dipole = 0,
fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-473.23861678701309, 745.75309201452853, -
1402.9285955753789, -404, -1, 0}, fDistanceAlongCurve = 0, fKineticEnergy
= 373.57735549306739, fRestMass_c2 = 493.67699999999996, fLabTimeOfFlight
= 5.4118285644692099, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.46027170570111825, dy = 0.28992383456692367, dz = -0.8391031683178144,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
```

```
G4FieldTrack::G4FieldTrack (rStVec=..., this=0x7fffffff3ad0) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:46
46     SixVector[3]= rStVec.SixVector[3];
$22 = 22
```

Thread 1 "basf2" hit Watchpoint 3: CurrentA_PointVelocity

```
Old value = {SixVector = {-473.23861678701309, 745.75309201452853, -
1402.9285955753789, -404, -1, 0}, fDistanceAlongCurve = 0, fKineticEnergy
= 373.57735549306739, fRestMass_c2 = 493.67699999999996, fLabTimeOfFlight
= 5.4118285644692099, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.46027170570111825, dy = 0.28992383456692367, dz = -0.8391031683178144,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-473.23861678701309, 745.75309201452853, -
1402.9285955753789, -328.1879719404514, -1, 0}, fDistanceAlongCurve = 0,
fKineticEnergy = 373.57735549306739, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 5.4118285644692099, fProperTimeOfFlight = 0,
fPolarization = {dx = 0, dy = 0, dz = 0, static tolerance = 2.22045e-14},
fMomentumDir = {dx = -0.46027170570111825, dy = 0.28992383456692367, dz =
-0.8391031683178144, static tolerance = 2.22045e-14}, fChargeState =
{fCharge = -1, fSpin = 0, fMagn_dipole = 0, fElec_dipole = 0,
fMagneticCharge = 0}}
G4FieldTrack::G4FieldTrack (rStVec=..., this=0x7fffffff3ad0) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:47
47     SixVector[4]= rStVec.SixVector[4];
$23 = 23
```

Thread 1 "basf2" hit Watchpoint 3: CurrentA_PointVelocity

```
Old value = {SixVector = {-473.23861678701309, 745.75309201452853, -
1402.9285955753789, -328.1879719404514, -1, 0}, fDistanceAlongCurve = 0,
fKineticEnergy = 373.57735549306739, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 5.4118285644692099, fProperTimeOfFlight = 0,
fPolarization = {dx = 0, dy = 0, dz = 0, static tolerance = 2.22045e-14},
fMomentumDir = {dx = -0.46027170570111825, dy = 0.28992383456692367, dz =
-0.8391031683178144, static tolerance = 2.22045e-14}, fChargeState =
{fCharge = -1, fSpin = 0, fMagn_dipole = 0, fElec_dipole = 0,
fMagneticCharge = 0}}
New value = {SixVector = {-473.23861678701309, 745.75309201452853, -
1402.9285955753789, -328.1879719404514, 206.72466741960423, 0},
fDistanceAlongCurve = 0, fKineticEnergy = 373.57735549306739, fRestMass_c2
= 493.67699999999996, fLabTimeOfFlight = 5.4118285644692099,
fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy = 0, dz = 0, static
tolerance = 2.22045e-14}, fMomentumDir = {dx = -0.46027170570111825, dy =
0.28992383456692367, dz = -0.8391031683178144, static tolerance =
2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0, fMagn_dipole = 0,
fElec_dipole = 0, fMagneticCharge = 0}}
G4FieldTrack::G4FieldTrack (rStVec=..., this=0x7fffffff3ad0) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:48
```

```
48      SixVector[5]= rStVec.SixVector[5];
$24 = 24
```

Thread 1 "basf2" hit Watchpoint 3: CurrentA_PointVelocity

```
Old value = {SixVector = {-473.23861678701309, 745.75309201452853, -
1402.9285955753789, -328.1879719404514, 206.72466741960423, 0},
fDistanceAlongCurve = 0, fKineticEnergy = 373.57735549306739, fRestMass_c2
= 493.67699999999996, fLabTimeOfFlight = 5.4118285644692099,
fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy = 0, dz = 0, static
tolerance = 2.22045e-14}, fMomentumDir = {dx = -0.46027170570111825, dy =
0.28992383456692367, dz = -0.8391031683178144, static tolerance =
2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0, fMagn_dipole = 0,
fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-473.23861678701309, 745.75309201452853, -
1402.9285955753789, -328.1879719404514, 206.72466741960423, -
598.30652992138005}, fDistanceAlongCurve = 0, fKineticEnergy =
373.57735549306739, fRestMass_c2 = 493.67699999999996, fLabTimeOfFlight =
5.4118285644692099, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy =
0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.46027170570111825, dy = 0.28992383456692367, dz = -0.8391031683178144,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
G4MultiLevelLocator::EstimateIntersectionPoint(G4FieldTrack const&,
G4FieldTrack const&, CLHEP::Hep3Vector const&, G4FieldTrack&, bool&,
double&, CLHEP::Hep3Vector&) () at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4MultiLevelLocator.cc:108
108      G4FieldTrack CurrentB_PointVelocity = CurveEndPointVelocity;
$25 = 25
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-1460.8097842644372, -339.29961174636105,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx =
0.27521927977757926, dy = -0.8389454643951052, dz = -0.14638586571610662,
static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.23600975700361937, dy = 0.0044971787031588802, dz = -
0.22546613355381709, static tolerance = 2.22045e-14}, fChargeState =
{fCharge = 0.0024957366143401548, fSpin = 6.9533558053591426e-310,
fMagn_dipole = 2.1681280362709759e-317, fElec_dipole =
4.9406564584124654e-323, fMagneticCharge = 6.9533558053733716e-310}}
New value = {SixVector = {-1460.8097842644372, -339.29961174636105,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx =
0.27521927977757926, dy = -0.8389454643951052, dz = -0.14638586571610662,
static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.23600975700361937, dy = 0.0044971787031588802, dz = -
0.22546613355381709, static tolerance = 2.22045e-14}, fChargeState =
```

```
{fCharge = 0.0024957366143401548, fSpin = 6.9533558053591426e-310,
fMagn_dipole = 2.1681280362709759e-317, fElec_dipole = 0, fMagneticCharge
= 6.9533558053733716e-310}}
0x00002aaac7e837b3 in G4FieldTrack::G4FieldTrack (rStVec=...,
this=0x7fffffff3b80) at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4MultiLevelLocator.cc:108
108      G4FieldTrack  CurrentB_PointVelocity = CurveEndPointVelocity;
$26 = 26
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-1460.8097842644372, -339.29961174636105,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx =
0.27521927977757926, dy = -0.8389454643951052, dz = -0.14638586571610662,
static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.23600975700361937, dy = 0.0044971787031588802, dz = -
0.22546613355381709, static tolerance = 2.22045e-14}, fChargeState =
{fCharge = 0.0024957366143401548, fSpin = 6.9533558053591426e-310,
fMagn_dipole = 2.1681280362709759e-317, fElec_dipole = 0, fMagneticCharge
= 6.9533558053733716e-310}}
New value = {SixVector = {-1460.8097842644372, -339.29961174636105,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx =
0.27521927977757926, dy = -0.8389454643951052, dz = -0.14638586571610662,
static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.23600975700361937, dy = 0.0044971787031588802, dz = -
0.22546613355381709, static tolerance = 2.22045e-14}, fChargeState =
{fCharge = 0.0024957366143401548, fSpin = 6.9533558053591426e-310,
fMagn_dipole = 2.1681280362709759e-317, fElec_dipole = 0, fMagneticCharge
= 0}}
0x00002aaac7e837eb in G4FieldTrack::G4FieldTrack (rStVec=...,
this=0x7fffffff3b80) at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4MultiLevelLocator.cc:108
108      G4FieldTrack  CurrentB_PointVelocity = CurveEndPointVelocity;
$27 = 27
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-1460.8097842644372, -339.29961174636105,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx =
0.27521927977757926, dy = -0.8389454643951052, dz = -0.14638586571610662,
static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.23600975700361937, dy = 0.0044971787031588802, dz = -
0.22546613355381709, static tolerance = 2.22045e-14}, fChargeState =
{fCharge = 0.0024957366143401548, fSpin = 6.9533558053591426e-310,
```

```

fMagn_dipole = 2.1681280362709759e-317, fElec_dipole = 0, fMagneticCharge
= 0}}
New value = {SixVector = {-505.48883205120251, -339.29961174636105,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx =
0.27521927977757926, dy = -0.8389454643951052, dz = -0.14638586571610662,
static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.23600975700361937, dy = 0.0044971787031588802, dz = -
0.22546613355381709, static tolerance = 2.22045e-14}, fChargeState =
{fCharge = 0.0024957366143401548, fSpin = 6.9533558053591426e-310,
fMagn_dipole = 2.1681280362709759e-317, fElec_dipole = 0, fMagneticCharge
= 0}}
0x00002aaac7e837ff in G4FieldTrack::G4FieldTrack (rStVec=...,
this=0x7ffffffffff3b80) at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4MultiLevelLocator.cc:108
108      G4FieldTrack  CurrentB_PointVelocity = CurveEndPointVelocity;
$28 = 28

```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```

Old value = {SixVector = {-505.48883205120251, -339.29961174636105,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx =
0.27521927977757926, dy = -0.8389454643951052, dz = -0.14638586571610662,
static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.23600975700361937, dy = 0.0044971787031588802, dz = -
0.22546613355381709, static tolerance = 2.22045e-14}, fChargeState =
{fCharge = 0.0024957366143401548, fSpin = 6.9533558053591426e-310,
fMagn_dipole = 2.1681280362709759e-317, fElec_dipole = 0, fMagneticCharge
= 0}}
New value = {SixVector = {-505.48883205120251, -339.29961174636105,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= -0.8389454643951052, dz = -0.14638586571610662, static tolerance =
2.22045e-14}, fMomentumDir = {dx = -0.23600975700361937, dy =
0.0044971787031588802, dz = -0.22546613355381709, static tolerance =
2.22045e-14}, fChargeState = {fCharge = 0.0024957366143401548, fSpin =
6.9533558053591426e-310, fMagn_dipole = 2.1681280362709759e-317,
fElec_dipole = 0, fMagneticCharge = 0}}
0x00002aaac7e8380e in CLHEP::Hep3Vector::Hep3Vector (p=...,
this=0x7ffffffffff3bd8) at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4MultiLevelLocator.cc:108
108      G4FieldTrack  CurrentB_PointVelocity = CurveEndPointVelocity;
$29 = 29

```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```

Old value = {SixVector = {-505.48883205120251, -339.29961174636105,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= -0.8389454643951052, dz = -0.14638586571610662, static tolerance =
2.22045e-14}, fMomentumDir = {dx = -0.23600975700361937, dy =
0.0044971787031588802, dz = -0.22546613355381709, static tolerance =
2.22045e-14}, fChargeState = {fCharge = 0.0024957366143401548, fSpin =
6.9533558053591426e-310, fMagn_dipole = 2.1681280362709759e-317,
fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-505.48883205120251, -339.29961174636105,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = -0.14638586571610662, static tolerance = 2.22045e-14},
fMomentumDir = {dx = -0.23600975700361937, dy = 0.0044971787031588802, dz
= -0.22546613355381709, static tolerance = 2.22045e-14}, fChargeState =
{fCharge = 0.0024957366143401548, fSpin = 6.9533558053591426e-310,
fMagn_dipole = 2.1681280362709759e-317, fElec_dipole = 0, fMagneticCharge
= 0}}
0x00002aaac7e83818 in CLHEP::Hep3Vector::Hep3Vector (p=...,
this=0x7fffffff3bd8) at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4MultiLevelLocator.cc:108
108      G4FieldTrack  CurrentB_PointVelocity = CurveEndPointVelocity;
$30 = 30

```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```

Old value = {SixVector = {-505.48883205120251, -339.29961174636105,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = -0.14638586571610662, static tolerance = 2.22045e-14},
fMomentumDir = {dx = -0.23600975700361937, dy = 0.0044971787031588802, dz
= -0.22546613355381709, static tolerance = 2.22045e-14}, fChargeState =
{fCharge = 0.0024957366143401548, fSpin = 6.9533558053591426e-310,
fMagn_dipole = 2.1681280362709759e-317, fElec_dipole = 0, fMagneticCharge
= 0}}
New value = {SixVector = {-505.48883205120251, -339.29961174636105,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.23600975700361937, dy = 0.0044971787031588802, dz = -
0.22546613355381709, static tolerance = 2.22045e-14}, fChargeState =
{fCharge = 0.0024957366143401548, fSpin = 6.9533558053591426e-310,
fMagn_dipole = 2.1681280362709759e-317, fElec_dipole = 0, fMagneticCharge
= 0}}

```

```
G4FieldTrack::G4FieldTrack (rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:41
41      fChargeState( rStVec.fChargeState )
$31 = 31
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-505.48883205120251, -339.29961174636105,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.23600975700361937, dy = 0.0044971787031588802, dz = -
0.22546613355381709, static tolerance = 2.22045e-14}, fChargeState =
{fCharge = 0.0024957366143401548, fSpin = 6.9533558053591426e-310,
fMagn_dipole = 2.1681280362709759e-317, fElec_dipole = 0, fMagneticCharge
= 0}}
New value = {SixVector = {-505.48883205120251, -339.29961174636105,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.0044971787031588802, dz = -
0.22546613355381709, static tolerance = 2.22045e-14}, fChargeState =
{fCharge = 0.0024957366143401548, fSpin = 6.9533558053591426e-310,
fMagn_dipole = 2.1681280362709759e-317, fElec_dipole = 0, fMagneticCharge
= 0}}
0x00002aaac7e8382b in CLHEP::Hep3Vector::Hep3Vector (p=...,
this=0x7fffffff3bf0) at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4MultiLevelLocator.cc:108
108      G4FieldTrack CurrentB_PointVelocity = CurveEndPointVelocity;
$32 = 32
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-505.48883205120251, -339.29961174636105,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.0044971787031588802, dz = -
0.22546613355381709, static tolerance = 2.22045e-14}, fChargeState =
{fCharge = 0.0024957366143401548, fSpin = 6.9533558053591426e-310,
fMagn_dipole = 2.1681280362709759e-317, fElec_dipole = 0, fMagneticCharge
= 0}}
New value = {SixVector = {-505.48883205120251, -339.29961174636105,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
```

```

= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.22546613355381709,
static tolerance = 2.22045e-14}, fChargeState = {fCharge =
0.0024957366143401548, fSpin = 6.9533558053591426e-310, fMagn_dipole =
2.1681280362709759e-317, fElec_dipole = 0, fMagneticCharge = 0}}
0x00002aaac7e83834 in CLHEP::Hep3Vector::Hep3Vector (p=...,
this=0x7fffffff3bf0) at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4MultiLevelLocator.cc:108
108      G4FieldTrack CurrentB_PointVelocity = CurveEndPointVelocity;
$33 = 33

```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```

Old value = {SixVector = {-505.48883205120251, -339.29961174636105,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.22546613355381709,
static tolerance = 2.22045e-14}, fChargeState = {fCharge =
0.0024957366143401548, fSpin = 6.9533558053591426e-310, fMagn_dipole =
2.1681280362709759e-317, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-505.48883205120251, -339.29961174636105,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge =
0.0024957366143401548, fSpin = 6.9533558053591426e-310, fMagn_dipole =
2.1681280362709759e-317, fElec_dipole = 0, fMagneticCharge = 0}}
G4FieldTrack::G4FieldTrack (rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:41
41      fChargeState( rStVec.fChargeState )
$34 = 34

```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```

Old value = {SixVector = {-505.48883205120251, -339.29961174636105,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge =
0.0024957366143401548, fSpin = 6.9533558053591426e-310, fMagn_dipole =
2.1681280362709759e-317, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-505.48883205120251, -339.29961174636105,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,

```



```

fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin =
6.9533558053591426e-310, fMagn_dipole = 2.1681280362709759e-317,
fElec_dipole = 0, fMagneticCharge = 0}}
G4ChargeState::G4ChargeState (right=..., this=0x7fffffff3c08) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4ChargeState.hh:138
138      fSpin          = right.fSpin;
$35 = 35

```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```

Old value = {SixVector = {-505.48883205120251, -339.29961174636105,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin =
6.9533558053591426e-310, fMagn_dipole = 2.1681280362709759e-317,
fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-505.48883205120251, -339.29961174636105,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 2.1681280362709759e-317, fElec_dipole = 0, fMagneticCharge
= 0}}
G4ChargeState::G4ChargeState (right=..., this=0x7fffffff3c08) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4ChargeState.hh:139
139      fMagn_dipole    = right.fMagn_dipole;
$36 = 36

```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```

Old value = {SixVector = {-505.48883205120251, -339.29961174636105,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 2.1681280362709759e-317, fElec_dipole = 0, fMagneticCharge
= 0}}

```

```
New value = {SixVector = {-505.48883205120251, -339.29961174636105,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
G4FieldTrack::G4FieldTrack (rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:44
44     SixVector[1]= rStVec.SixVector[1];
$37 = 37
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-505.48883205120251, -339.29961174636105,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-505.48883205120251, 764.98336889546647,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
G4FieldTrack::G4FieldTrack (rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:45
45     SixVector[2]= rStVec.SixVector[2];
$38 = 38
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-505.48883205120251, 764.98336889546647,
189.95358450339654, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-505.48883205120251, 764.98336889546647, -
1460.8097842644372, -597.66758909281157, 373.57735549306739,
```

```
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
G4FieldTrack::G4FieldTrack (rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:46
46     SixVector[3]= rStVec.SixVector[3];
$39 = 39
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-505.48883205120251, 764.98336889546647, -
1460.8097842644372, -597.66758909281157, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-505.48883205120251, 764.98336889546647, -
1460.8097842644372, -339.29961174636105, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
G4FieldTrack::G4FieldTrack (rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:47
47     SixVector[4]= rStVec.SixVector[4];
$40 = 40
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-505.48883205120251, 764.98336889546647, -
1460.8097842644372, -339.29961174636105, 373.57735549306739,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-505.48883205120251, 764.98336889546647, -
1460.8097842644372, -339.29961174636105, 189.95358450339654,
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
```

```

fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
G4FieldTrack::G4FieldTrack (rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:48
48     SixVector[5]= rStVec.SixVector[5];
$41 = 41

```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```

Old value = {SixVector = {-505.48883205120251, 764.98336889546647, -
1460.8097842644372, -339.29961174636105, 189.95358450339654, -
5.4118285644692099}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-505.48883205120251, 764.98336889546647, -
1460.8097842644372, -339.29961174636105, 189.95358450339654, -
597.66758909281157}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
G4MultiLevelLocator::EstimateIntersectionPoint(G4FieldTrack const&,
G4FieldTrack const&, CLHEP::Hep3Vector const&, G4FieldTrack&, bool&,
double&, CLHEP::Hep3Vector&) () at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4MultiLevelLocator.cc:109
109     G4ThreeVector CurrentE_Point = TrialPoint;
$42 = 42

```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```

Old value = {SixVector = {-505.48883205120251, 764.98336889546647, -
1460.8097842644372, -339.29961174636105, 189.95358450339654, -
597.66758909281157}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63597707161949, 764.98336889546647, -
1460.8097842644372, -339.29961174636105, 189.95358450339654, -
597.66758909281157}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,

```

```

fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
0x00002aaac7e849dc in G4FieldTrack::operator= (rStVec=..., this=<optimized
out>) at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/Linux_x86_64/debug/include/CLHEP/Vector/ThreeVector.icc:131
131      dx = p.dx;
$43 = 43

```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```

Old value = {SixVector = {-501.63597707161949, 764.98336889546647, -
1460.8097842644372, -339.29961174636105, 189.95358450339654, -
597.66758909281157}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63597707161949, 762.80766175801261, -
1460.8097842644372, -339.29961174636105, 189.95358450339654, -
597.66758909281157}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
0x00002aaac7e849f7 in G4FieldTrack::operator= (rStVec=..., this=<optimized
out>) at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/Linux_x86_64/debug/include/CLHEP/Vector/ThreeVector.icc:131
131      dx = p.dx;
$44 = 44

```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```

Old value = {SixVector = {-501.63597707161949, 762.80766175801261, -
1460.8097842644372, -339.29961174636105, 189.95358450339654, -
597.66758909281157}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63597707161949, 762.80766175801261, -
1454.004320399353, -339.29961174636105, 189.95358450339654, -
597.66758909281157}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -

```

```
0.47585537628520441, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
G4FieldTrack::operator= (rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:242
242     SixVector[3]= rStVec.SixVector[3];
$45 = 45
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63597707161949, 762.80766175801261, -
1454.004320399353, -339.29961174636105, 189.95358450339654, -
597.66758909281157}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63597707161949, 762.80766175801261, -
1454.004320399353, -337.40961743179923, 189.95358450339654, -
597.66758909281157}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
G4FieldTrack::operator= (rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:243
243     SixVector[4]= rStVec.SixVector[4];
$46 = 46
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63597707161949, 762.80766175801261, -
1454.004320399353, -337.40961743179923, 189.95358450339654, -
597.66758909281157}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63597707161949, 762.80766175801261, -
1454.004320399353, -337.40961743179923, 192.37182834431513, -
597.66758909281157}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.83820707615142431,
```

```
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
G4FieldTrack::operator=(rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:244
244     SixVector[5]= rStVec.SixVector[5];
$47 = 47
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63597707161949, 762.80766175801261, -
1454.004320399353, -337.40961743179923, 192.37182834431513, -
597.66758909281157}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63597707161949, 762.80766175801261, -
1454.004320399353, -337.40961743179923, 192.37182834431513, -
597.96401966871315}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
G4FieldTrack::operator=(rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:245
245     SetCurveLength( rStVec.GetCurveLength() );
$48 = 48
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63597707161949, 762.80766175801261, -
1454.004320399353, -337.40961743179923, 192.37182834431513, -
597.96401966871315}, fDistanceAlongCurve = 68.995723109969248,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63597707161949, 762.80766175801261, -
1454.004320399353, -337.40961743179923, 192.37182834431513, -
597.96401966871315}, fDistanceAlongCurve = 60.878301885747689,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
```

```
G4FieldTrack::operator= (rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:247
247     fKineticEnergy= rStVec.fKineticEnergy;
$49 = 49
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63597707161949, 762.80766175801261, -
1454.004320399353, -337.40961743179923, 192.37182834431513, -
597.96401966871315}, fDistanceAlongCurve = 60.878301885747689,
fKineticEnergy = 373.5773561020228, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63597707161949, 762.80766175801261, -
1454.004320399353, -337.40961743179923, 192.37182834431513, -
597.96401966871315}, fDistanceAlongCurve = 60.878301885747689,
fKineticEnergy = 373.5773568200583, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
G4FieldTrack::operator= (rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:248
248     fRestMass_c2= rStVec.fRestMass_c2;
$50 = 50
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63597707161949, 762.80766175801261, -
1454.004320399353, -337.40961743179923, 192.37182834431513, -
597.96401966871315}, fDistanceAlongCurve = 60.878301885747689,
fKineticEnergy = 373.5773568200583, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47585537628520441, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63597707161949, 762.80766175801261, -
1454.004320399353, -337.40961743179923, 192.37182834431513, -
597.96401966871315}, fDistanceAlongCurve = 60.878301885747689,
fKineticEnergy = 373.5773568200583, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320472735648883, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
```



```
CLHEP::Hep3Vector::operator= (p=..., this=0x7fffffff3bf0) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/Linux_x86_64/debug/include/CLHEP/Vector/ThreeVector.icc:132
132      dy = p.dy;
$51 = 51
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63597707161949, 762.80766175801261, -
1454.004320399353, -337.40961743179923, 192.37182834431513, -
597.96401966871315}, fDistanceAlongCurve = 60.878301885747689,
fKineticEnergy = 373.5773568200583, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320472735648883, dy = 0.26640299988954103, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63597707161949, 762.80766175801261, -
1454.004320399353, -337.40961743179923, 192.37182834431513, -
597.96401966871315}, fDistanceAlongCurve = 60.878301885747689,
fKineticEnergy = 373.5773568200583, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320472735648883, dy = 0.2697944986738296, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
CLHEP::Hep3Vector::operator= (p=..., this=0x7fffffff3bf0) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/Linux_x86_64/debug/include/CLHEP/Vector/ThreeVector.icc:133
133      dz = p.dz;
$52 = 52
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63597707161949, 762.80766175801261, -
1454.004320399353, -337.40961743179923, 192.37182834431513, -
597.96401966871315}, fDistanceAlongCurve = 60.878301885747689,
fKineticEnergy = 373.5773568200583, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320472735648883, dy = 0.2697944986738296, dz = -0.83820707615142431,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63597707161949, 762.80766175801261, -
1454.004320399353, -337.40961743179923, 192.37182834431513, -
597.96401966871315}, fDistanceAlongCurve = 60.878301885747689,
fKineticEnergy = 373.5773568200583, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320472735648883, dy = 0.2697944986738296, dz = -0.83862280823550694,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
```

```
G4FieldTrack::operator= (rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:254
254     fChargeState= rStVec.fChargeState;
$53 = 53
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63597707161949, 762.80766175801261, -
1454.004320399353, -337.40961743179923, 192.37182834431513, -
597.96401966871315}, fDistanceAlongCurve = 60.878301885747689,
fKineticEnergy = 373.5773568200583, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320472735648883, dy = 0.2697944986738296, dz = -0.83862280823550694,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354317157518, 762.80766175801261, -
1454.004320399353, -337.40961743179923, 192.37182834431513, -
597.96401966871315}, fDistanceAlongCurve = 60.878301885747689,
fKineticEnergy = 373.5773568200583, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320472735648883, dy = 0.2697944986738296, dz = -0.83862280823550694,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
0x00002aaac7e849dc in G4FieldTrack::operator= (rStVec=..., this=<optimized
out>) at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/Linux_x86_64/debug/include/CLHEP/Vector/ThreeVector.icc:131
131     dx = p.dx;
$54 = 54
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63354317157518, 762.80766175801261, -
1454.004320399353, -337.40961743179923, 192.37182834431513, -
597.96401966871315}, fDistanceAlongCurve = 60.878301885747689,
fKineticEnergy = 373.5773568200583, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320472735648883, dy = 0.2697944986738296, dz = -0.83862280823550694,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354317157518, 762.80627055839045, -
1454.004320399353, -337.40961743179923, 192.37182834431513, -
597.96401966871315}, fDistanceAlongCurve = 60.878301885747689,
fKineticEnergy = 373.5773568200583, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320472735648883, dy = 0.2697944986738296, dz = -0.83862280823550694,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
```

```
0x00002aaac7e849f7 in G4FieldTrack::operator= (rStVec=..., this=<optimized
out>) at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/Linux_x86_64/debug/include/CLHEP/Vector/ThreeVector.icc:131
131      dx = p.dx;
$55 = 55
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63354317157518, 762.80627055839045, -
1454.004320399353, -337.40961743179923, 192.37182834431513, -
597.96401966871315}, fDistanceAlongCurve = 60.878301885747689,
fKineticEnergy = 373.5773568200583, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320472735648883, dy = 0.2697944986738296, dz = -0.83862280823550694,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354317157518, 762.80627055839045, -
1454.000000816804, -337.40961743179923, 192.37182834431513, -
597.96401966871315}, fDistanceAlongCurve = 60.878301885747689,
fKineticEnergy = 373.5773568200583, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320472735648883, dy = 0.2697944986738296, dz = -0.83862280823550694,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
G4FieldTrack::operator= (rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:242
242      SixVector[3]= rStVec.SixVector[3];
$56 = 56
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63354317157518, 762.80627055839045, -
1454.000000816804, -337.40961743179923, 192.37182834431513, -
597.96401966871315}, fDistanceAlongCurve = 60.878301885747689,
fKineticEnergy = 373.5773568200583, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320472735648883, dy = 0.2697944986738296, dz = -0.83862280823550694,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354317157518, 762.80627055839045, -
1454.000000816804, -337.40868149778504, 192.37182834431513, -
597.96401966871315}, fDistanceAlongCurve = 60.878301885747689,
fKineticEnergy = 373.5773568200583, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320472735648883, dy = 0.2697944986738296, dz = -0.83862280823550694,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
```

```
G4FieldTrack::operator= (rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:243
243     SixVector[4]= rStVec.SixVector[4];
$57 = 57
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63354317157518, 762.80627055839045, -
1454.000000816804, -337.40868149778504, 192.37182834431513, -
597.96401966871315}, fDistanceAlongCurve = 60.878301885747689,
fKineticEnergy = 373.5773568200583, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320472735648883, dy = 0.2697944986738296, dz = -0.83862280823550694,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354317157518, 762.80627055839045, -
1454.000000816804, -337.40868149778504, 192.37318277727331, -
597.96401966871315}, fDistanceAlongCurve = 60.878301885747689,
fKineticEnergy = 373.5773568200583, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320472735648883, dy = 0.2697944986738296, dz = -0.83862280823550694,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
G4FieldTrack::operator= (rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:244
244     SixVector[5]= rStVec.SixVector[5];
$58 = 58
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63354317157518, 762.80627055839045, -
1454.000000816804, -337.40868149778504, 192.37318277727331, -
597.96401966871315}, fDistanceAlongCurve = 60.878301885747689,
fKineticEnergy = 373.5773568200583, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320472735648883, dy = 0.2697944986738296, dz = -0.83862280823550694,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354317157518, 762.80627055839045, -
1454.000000816804, -337.40868149778504, 192.37318277727331, -
597.964112031333}, fDistanceAlongCurve = 60.878301885747689,
fKineticEnergy = 373.5773568200583, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320472735648883, dy = 0.2697944986738296, dz = -0.83862280823550694,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
```

```
G4FieldTrack::operator= (rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:245
245     SetCurveLength( rStVec.GetCurveLength() );
$59 = 59
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63354317157518, 762.80627055839045, -
1454.000000816804, -337.40868149778504, 192.37318277727331, -
597.964112031333}, fDistanceAlongCurve = 60.878301885747689,
fKineticEnergy = 373.5773568200583, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320472735648883, dy = 0.2697944986738296, dz = -0.83862280823550694,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354317157518, 762.80627055839045, -
1454.000000816804, -337.40868149778504, 192.37318277727331, -
597.964112031333}, fDistanceAlongCurve = 60.873152304865883,
fKineticEnergy = 373.5773568200583, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320472735648883, dy = 0.2697944986738296, dz = -0.83862280823550694,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
G4FieldTrack::operator= (rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:247
247     fKineticEnergy= rStVec.fKineticEnergy;
$60 = 60
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63354317157518, 762.80627055839045, -
1454.000000816804, -337.40868149778504, 192.37318277727331, -
597.964112031333}, fDistanceAlongCurve = 60.873152304865883,
fKineticEnergy = 373.5773568200583, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320472735648883, dy = 0.2697944986738296, dz = -0.83862280823550694,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354317157518, 762.80627055839045, -
1454.000000816804, -337.40868149778504, 192.37318277727331, -
597.964112031333}, fDistanceAlongCurve = 60.873152304865883,
fKineticEnergy = 373.57735681139854, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320472735648883, dy = 0.2697944986738296, dz = -0.83862280823550694,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
```

```
G4FieldTrack::operator= (rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:248
248      fRestMass_c2= rStVec.fRestMass_c2;
$61 = 61
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63354317157518, 762.80627055839045, -
1454.000000816804, -337.40868149778504, 192.37318277727331, -
597.964112031333}, fDistanceAlongCurve = 60.873152304865883,
fKineticEnergy = 373.57735681139854, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320472735648883, dy = 0.2697944986738296, dz = -0.83862280823550694,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354317157518, 762.80627055839045, -
1454.000000816804, -337.40868149778504, 192.37318277727331, -
597.964112031333}, fDistanceAlongCurve = 60.873152304865883,
fKineticEnergy = 373.57735681139854, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.4732034147500348, dy = 0.2697944986738296, dz = -0.83862280823550694,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
CLHEP::Hep3Vector::operator= (p=..., this=0x7fffffff3bf0) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/Linux_x86_64/debug/include/CLHEP/Vector/ThreeVector.icc:132
132      dy = p.dy;
$62 = 62
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63354317157518, 762.80627055839045, -
1454.000000816804, -337.40868149778504, 192.37318277727331, -
597.964112031333}, fDistanceAlongCurve = 60.873152304865883,
fKineticEnergy = 373.57735681139854, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.4732034147500348, dy = 0.2697944986738296, dz = -0.83862280823550694,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354317157518, 762.80627055839045, -
1454.000000816804, -337.40868149778504, 192.37318277727331, -
597.964112031333}, fDistanceAlongCurve = 60.873152304865883,
fKineticEnergy = 373.57735681139854, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.4732034147500348, dy = 0.26979639822082024, dz = -0.83862280823550694,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
```

```
CLHEP::Hep3Vector::operator= (p=..., this=0x7fffffff3bf0) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/Linux_x86_64/debug/include/CLHEP/Vector/ThreeVector.icc:133
133     dz = p.dz;
$63 = 63
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63354317157518, 762.80627055839045, -
1454.000000816804, -337.40868149778504, 192.37318277727331, -
597.964112031333}, fDistanceAlongCurve = 60.873152304865883,
fKineticEnergy = 373.57735681139854, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.4732034147500348, dy = 0.26979639822082024, dz = -0.83862280823550694,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354317157518, 762.80627055839045, -
1454.000000816804, -337.40868149778504, 192.37318277727331, -
597.964112031333}, fDistanceAlongCurve = 60.873152304865883,
fKineticEnergy = 373.57735681139854, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.4732034147500348, dy = 0.26979639822082024, dz = -0.83862293778311292,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
G4FieldTrack::operator= (rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:254
254     fChargeState= rStVec.fChargeState;
$64 = 64
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63354317157518, 762.80627055839045, -
1454.000000816804, -337.40868149778504, 192.37318277727331, -
597.964112031333}, fDistanceAlongCurve = 60.873152304865883,
fKineticEnergy = 373.57735681139854, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.4732034147500348, dy = 0.26979639822082024, dz = -0.83862293778311292,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354271120289, 762.80627055839045, -
1454.000000816804, -337.40868149778504, 192.37318277727331, -
597.964112031333}, fDistanceAlongCurve = 60.873152304865883,
fKineticEnergy = 373.57735681139854, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.4732034147500348, dy = 0.26979639822082024, dz = -0.83862293778311292,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
```

```
0x00002aaac7e849dc in G4FieldTrack::operator= (rStVec=..., this=<optimized
out>) at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/Linux_x86_64/debug/include/CLHEP/Vector/ThreeVector.icc:131
131      dx = p.dx;
$65 = 65
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63354271120289, 762.80627055839045, -
1454.000000816804, -337.40868149778504, 192.37318277727331, -
597.964112031333}, fDistanceAlongCurve = 60.873152304865883,
fKineticEnergy = 373.57735681139854, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.4732034147500348, dy = 0.26979639822082024, dz = -0.83862293778311292,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354271120289, 762.80627029541233, -
1454.000000816804, -337.40868149778504, 192.37318277727331, -
597.964112031333}, fDistanceAlongCurve = 60.873152304865883,
fKineticEnergy = 373.57735681139854, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.4732034147500348, dy = 0.26979639822082024, dz = -0.83862293778311292,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
0x00002aaac7e849f7 in G4FieldTrack::operator= (rStVec=..., this=<optimized
out>) at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/Linux_x86_64/debug/include/CLHEP/Vector/ThreeVector.icc:131
131      dx = p.dx;
$66 = 66
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63354271120289, 762.80627029541233, -
1454.000000816804, -337.40868149778504, 192.37318277727331, -
597.964112031333}, fDistanceAlongCurve = 60.873152304865883,
fKineticEnergy = 373.57735681139854, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.4732034147500348, dy = 0.26979639822082024, dz = -0.83862293778311292,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354271120289, 762.80627029541233, -
1454.0000000002603, -337.40868149778504, 192.37318277727331, -
597.964112031333}, fDistanceAlongCurve = 60.873152304865883,
fKineticEnergy = 373.57735681139854, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.4732034147500348, dy = 0.26979639822082024, dz = -0.83862293778311292,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
```



```
G4FieldTrack::operator= (rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:242
242     SixVector[3]= rStVec.SixVector[3];
$67 = 67
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63354271120289, 762.80627029541233, -
1454.0000000002603, -337.40868149778504, 192.37318277727331, -
597.964112031333}, fDistanceAlongCurve = 60.873152304865883,
fKineticEnergy = 373.57735681139854, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.4732034147500348, dy = 0.26979639822082024, dz = -0.83862293778311292,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354271120289, 762.80627029541233, -
1454.0000000002603, -337.40868138654605, 192.37318277727331, -
597.964112031333}, fDistanceAlongCurve = 60.873152304865883,
fKineticEnergy = 373.57735681139854, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.4732034147500348, dy = 0.26979639822082024, dz = -0.83862293778311292,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
G4FieldTrack::operator= (rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:243
243     SixVector[4]= rStVec.SixVector[4];
$68 = 68
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63354271120289, 762.80627029541233, -
1454.0000000002603, -337.40868138654605, 192.37318277727331, -
597.964112031333}, fDistanceAlongCurve = 60.873152304865883,
fKineticEnergy = 373.57735681139854, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.4732034147500348, dy = 0.26979639822082024, dz = -0.83862293778311292,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354271120289, 762.80627029541233, -
1454.0000000002603, -337.40868138654605, 192.37318290640405, -
597.964112031333}, fDistanceAlongCurve = 60.873152304865883,
fKineticEnergy = 373.57735681139854, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.4732034147500348, dy = 0.26979639822082024, dz = -0.83862293778311292,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
```

```
G4FieldTrack::operator= (rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:244
244     SixVector[5]= rStVec.SixVector[5];
$69 = 69
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63354271120289, 762.80627029541233, -
1454.0000000002603, -337.40868138654605, 192.37318290640405, -
597.964112031333}, fDistanceAlongCurve = 60.873152304865883,
fKineticEnergy = 373.57735681139854, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.4732034147500348, dy = 0.26979639822082024, dz = -0.83862293778311292,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354271120289, 762.80627029541233, -
1454.0000000002603, -337.40868138654605, 192.37318290640405, -
597.96411205256811}, fDistanceAlongCurve = 60.873152304865883,
fKineticEnergy = 373.57735681139854, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.4732034147500348, dy = 0.26979639822082024, dz = -0.83862293778311292,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
G4FieldTrack::operator= (rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:245
245     SetCurveLength( rStVec.GetCurveLength() );
$70 = 70
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63354271120289, 762.80627029541233, -
1454.0000000002603, -337.40868138654605, 192.37318290640405, -
597.96411205256811}, fDistanceAlongCurve = 60.873152304865883,
fKineticEnergy = 373.57735681139854, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.4732034147500348, dy = 0.26979639822082024, dz = -0.83862293778311292,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354271120289, 762.80627029541233, -
1454.0000000002603, -337.40868138654605, 192.37318290640405, -
597.96411205256811}, fDistanceAlongCurve = 60.873151331298914,
fKineticEnergy = 373.57735681139854, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.4732034147500348, dy = 0.26979639822082024, dz = -0.83862293778311292,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
```

```
G4FieldTrack::operator= (rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:247
247     fKineticEnergy= rStVec.fKineticEnergy;
$71 = 71
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63354271120289, 762.80627029541233, -
1454.0000000002603, -337.40868138654605, 192.37318290640405, -
597.96411205256811}, fDistanceAlongCurve = 60.873151331298914,
fKineticEnergy = 373.57735681139854, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.4732034147500348, dy = 0.26979639822082024, dz = -0.83862293778311292,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354271120289, 762.80627029541233, -
1454.0000000002603, -337.40868138654605, 192.37318290640405, -
597.96411205256811}, fDistanceAlongCurve = 60.873151331298914,
fKineticEnergy = 373.57735681140559, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.4732034147500348, dy = 0.26979639822082024, dz = -0.83862293778311292,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
G4FieldTrack::operator= (rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:248
248     fRestMass_c2= rStVec.fRestMass_c2;
$72 = 72
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63354271120289, 762.80627029541233, -
1454.0000000002603, -337.40868138654605, 192.37318290640405, -
597.96411205256811}, fDistanceAlongCurve = 60.873151331298914,
fKineticEnergy = 373.57735681140559, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.4732034147500348, dy = 0.26979639822082024, dz = -0.83862293778311292,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354271120289, 762.80627029541233, -
1454.0000000002603, -337.40868138654605, 192.37318290640405, -
597.96411205256811}, fDistanceAlongCurve = 60.873151331298914,
fKineticEnergy = 373.57735681140559, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320341459402054, dy = 0.26979639822082024, dz = -0.83862293778311292,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
```

```
CLHEP::Hep3Vector::operator= (p=..., this=0x7fffffff3bf0) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/Linux_x86_64/debug/include/CLHEP/Vector/ThreeVector.icc:132
132      dy = p.dy;
$73 = 73
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63354271120289, 762.80627029541233, -
1454.0000000002603, -337.40868138654605, 192.37318290640405, -
597.96411205256811}, fDistanceAlongCurve = 60.873151331298914,
fKineticEnergy = 373.57735681140559, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320341459402054, dy = 0.26979639822082024, dz = -0.83862293778311292,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354271120289, 762.80627029541233, -
1454.0000000002603, -337.40868138654605, 192.37318290640405, -
597.96411205256811}, fDistanceAlongCurve = 60.873151331298914,
fKineticEnergy = 373.57735681140559, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320341459402054, dy = 0.26979639840191821, dz = -0.83862293778311292,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
CLHEP::Hep3Vector::operator= (p=..., this=0x7fffffff3bf0) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/Linux_x86_64/debug/include/CLHEP/Vector/ThreeVector.icc:133
133      dz = p.dz;
$74 = 74
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63354271120289, 762.80627029541233, -
1454.0000000002603, -337.40868138654605, 192.37318290640405, -
597.96411205256811}, fDistanceAlongCurve = 60.873151331298914,
fKineticEnergy = 373.57735681140559, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320341459402054, dy = 0.26979639840191821, dz = -0.83862293778311292,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354271120289, 762.80627029541233, -
1454.0000000002603, -337.40868138654605, 192.37318290640405, -
597.96411205256811}, fDistanceAlongCurve = 60.873151331298914,
fKineticEnergy = 373.57735681140559, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320341459402054, dy = 0.26979639840191821, dz = -0.83862293781288444,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
```

```
G4FieldTrack::operator= (rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:254
254     fChargeState= rStVec.fChargeState;
$75 = 75
```

Thread 1 "basf2" hit Watchpoint 3: CurrentA_PointVelocity

```
Old value = {SixVector = {-473.23861678701309, 745.75309201452853, -
1402.9285955753789, -328.1879719404514, 206.72466741960423, -
598.30652992138005}, fDistanceAlongCurve = 0, fKineticEnergy =
373.57735549306739, fRestMass_c2 = 493.67699999999996, fLabTimeOfFlight =
5.4118285644692099, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy =
0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.46027170570111825, dy = 0.28992383456692367, dz = -0.8391031683178144,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354271165764, 745.75309201452853, -
1402.9285955753789, -328.1879719404514, 206.72466741960423, -
598.30652992138005}, fDistanceAlongCurve = 0, fKineticEnergy =
373.57735549306739, fRestMass_c2 = 493.67699999999996, fLabTimeOfFlight =
5.4118285644692099, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy =
0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.46027170570111825, dy = 0.28992383456692367, dz = -0.8391031683178144,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
0x00002aaac7e84f22 in G4FieldTrack::operator= (rStVec=..., this=<optimized
out>) at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/Linux_x86_64/debug/include/CLHEP/Vector/ThreeVector.icc:131
131     dx = p.dx;
$76 = 76
```

Thread 1 "basf2" hit Watchpoint 3: CurrentA_PointVelocity

```
Old value = {SixVector = {-501.63354271165764, 745.75309201452853, -
1402.9285955753789, -328.1879719404514, 206.72466741960423, -
598.30652992138005}, fDistanceAlongCurve = 0, fKineticEnergy =
373.57735549306739, fRestMass_c2 = 493.67699999999996, fLabTimeOfFlight =
5.4118285644692099, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy =
0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.46027170570111825, dy = 0.28992383456692367, dz = -0.8391031683178144,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354271165764, 762.80627029431571, -
1402.9285955753789, -328.1879719404514, 206.72466741960423, -
598.30652992138005}, fDistanceAlongCurve = 0, fKineticEnergy =
373.57735549306739, fRestMass_c2 = 493.67699999999996, fLabTimeOfFlight =
5.4118285644692099, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy =
0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.46027170570111825, dy = 0.28992383456692367, dz = -0.8391031683178144,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
```

```
0x00002aaac7e84f3d in G4FieldTrack::operator= (rStVec=..., this=<optimized
out>) at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/Linux_x86_64/debug/include/CLHEP/Vector/ThreeVector.icc:131
131      dx = p.dx;
$77 = 77
```

Thread 1 "basf2" hit Watchpoint 3: CurrentA_PointVelocity

```
Old value = {SixVector = {-501.63354271165764, 762.80627029431571, -
1402.9285955753789, -328.1879719404514, 206.72466741960423, -
598.30652992138005}, fDistanceAlongCurve = 0, fKineticEnergy =
373.57735549306739, fRestMass_c2 = 493.67699999999996, fLabTimeOfFlight =
5.4118285644692099, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy =
0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.46027170570111825, dy = 0.28992383456692367, dz = -0.8391031683178144,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354271165764, 762.80627029431571, -
1453.99999999999964, -328.1879719404514, 206.72466741960423, -
598.30652992138005}, fDistanceAlongCurve = 0, fKineticEnergy =
373.57735549306739, fRestMass_c2 = 493.67699999999996, fLabTimeOfFlight =
5.4118285644692099, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy =
0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.46027170570111825, dy = 0.28992383456692367, dz = -0.8391031683178144,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
G4FieldTrack::operator= (rStVec=..., this=0x7fffffff3ad0) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:242
242      SixVector[3]= rStVec.SixVector[3];
$78 = 78
```

Thread 1 "basf2" hit Watchpoint 3: CurrentA_PointVelocity

```
Old value = {SixVector = {-501.63354271165764, 762.80627029431571, -
1453.99999999999964, -328.1879719404514, 206.72466741960423, -
598.30652992138005}, fDistanceAlongCurve = 0, fKineticEnergy =
373.57735549306739, fRestMass_c2 = 493.67699999999996, fLabTimeOfFlight =
5.4118285644692099, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy =
0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.46027170570111825, dy = 0.28992383456692367, dz = -0.8391031683178144,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354271165764, 762.80627029431571, -
1453.99999999999964, -337.40868139648074, 206.72466741960423, -
598.30652992138005}, fDistanceAlongCurve = 0, fKineticEnergy =
373.57735549306739, fRestMass_c2 = 493.67699999999996, fLabTimeOfFlight =
5.4118285644692099, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy =
0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.46027170570111825, dy = 0.28992383456692367, dz = -0.8391031683178144,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
```

```
G4FieldTrack::operator= (rStVec=..., this=0x7fffffff3ad0) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:243
243     SixVector[4]= rStVec.SixVector[4];
$79 = 79
```

Thread 1 "basf2" hit Watchpoint 3: CurrentA_PointVelocity

```
Old value = {SixVector = {-501.63354271165764, 762.80627029431571, -
1453.9999999999964, -337.40868139648074, 206.72466741960423, -
598.30652992138005}, fDistanceAlongCurve = 0, fKineticEnergy =
373.57735549306739, fRestMass_c2 = 493.67699999999996, fLabTimeOfFlight =
5.4118285644692099, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy =
0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.46027170570111825, dy = 0.28992383456692367, dz = -0.8391031683178144,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354271165764, 762.80627029431571, -
1453.9999999999964, -337.40868139648074, 192.37318288906397, -
598.30652992138005}, fDistanceAlongCurve = 0, fKineticEnergy =
373.57735549306739, fRestMass_c2 = 493.67699999999996, fLabTimeOfFlight =
5.4118285644692099, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy =
0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.46027170570111825, dy = 0.28992383456692367, dz = -0.8391031683178144,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
G4FieldTrack::operator= (rStVec=..., this=0x7fffffff3ad0) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:244
244     SixVector[5]= rStVec.SixVector[5];
$80 = 80
```

Thread 1 "basf2" hit Watchpoint 3: CurrentA_PointVelocity

```
Old value = {SixVector = {-501.63354271165764, 762.80627029431571, -
1453.9999999999964, -337.40868139648074, 192.37318288906397, -
598.30652992138005}, fDistanceAlongCurve = 0, fKineticEnergy =
373.57735549306739, fRestMass_c2 = 493.67699999999996, fLabTimeOfFlight =
5.4118285644692099, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy =
0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.46027170570111825, dy = 0.28992383456692367, dz = -0.8391031683178144,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354271165764, 762.80627029431571, -
1453.9999999999964, -337.40868139648074, 192.37318288906397, -
597.9641120525406}, fDistanceAlongCurve = 0, fKineticEnergy =
373.57735549306739, fRestMass_c2 = 493.67699999999996, fLabTimeOfFlight =
5.4118285644692099, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy =
0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.46027170570111825, dy = 0.28992383456692367, dz = -0.8391031683178144,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
```

```
G4FieldTrack::operator= (rStVec=..., this=0x7fffffff3ad0) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:245
245     SetCurveLength( rStVec.GetCurveLength() );
$81 = 81
```

Thread 1 "basf2" hit Watchpoint 3: CurrentA_PointVelocity

```
Old value = {SixVector = {-501.63354271165764, 762.80627029431571, -
1453.9999999999964, -337.40868139648074, 192.37318288906397, -
597.9641120525406}, fDistanceAlongCurve = 0, fKineticEnergy =
373.57735549306739, fRestMass_c2 = 493.67699999999996, fLabTimeOfFlight =
5.4118285644692099, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy =
0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.46027170570111825, dy = 0.28992383456692367, dz = -0.8391031683178144,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354271165764, 762.80627029431571, -
1453.9999999999964, -337.40868139648074, 192.37318288906397, -
597.9641120525406}, fDistanceAlongCurve = 60.873151330988605,
fKineticEnergy = 373.57735549306739, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 5.4118285644692099, fProperTimeOfFlight = 0,
fPolarization = {dx = 0, dy = 0, dz = 0, static tolerance = 2.22045e-14},
fMomentumDir = {dx = -0.46027170570111825, dy = 0.28992383456692367, dz =
-0.8391031683178144, static tolerance = 2.22045e-14}, fChargeState =
{fCharge = -1, fSpin = 0, fMagn_dipole = 0, fElec_dipole = 0,
fMagneticCharge = 0}}
G4FieldTrack::operator= (rStVec=..., this=0x7fffffff3ad0) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:247
247     fKineticEnergy= rStVec.fKineticEnergy;
$82 = 82
```

Thread 1 "basf2" hit Watchpoint 3: CurrentA_PointVelocity

```
Old value = {SixVector = {-501.63354271165764, 762.80627029431571, -
1453.9999999999964, -337.40868139648074, 192.37318288906397, -
597.9641120525406}, fDistanceAlongCurve = 60.873151330988605,
fKineticEnergy = 373.57735549306739, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 5.4118285644692099, fProperTimeOfFlight = 0,
fPolarization = {dx = 0, dy = 0, dz = 0, static tolerance = 2.22045e-14},
fMomentumDir = {dx = -0.46027170570111825, dy = 0.28992383456692367, dz =
-0.8391031683178144, static tolerance = 2.22045e-14}, fChargeState =
{fCharge = -1, fSpin = 0, fMagn_dipole = 0, fElec_dipole = 0,
fMagneticCharge = 0}}
New value = {SixVector = {-501.63354271165764, 762.80627029431571, -
1453.9999999999964, -337.40868139648074, 192.37318288906397, -
597.9641120525406}, fDistanceAlongCurve = 60.873151330988605,
fKineticEnergy = 373.57735681140542, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 5.4118285644692099, fProperTimeOfFlight = 0,
fPolarization = {dx = 0, dy = 0, dz = 0, static tolerance = 2.22045e-14},
fMomentumDir = {dx = -0.46027170570111825, dy = 0.28992383456692367, dz =
-0.8391031683178144, static tolerance = 2.22045e-14}, fChargeState =
```



```
{fCharge = -1, fSpin = 0, fMagn_dipole = 0, fElec_dipole = 0,
fMagneticCharge = 0}}
G4FieldTrack::operator= (rStVec=..., this=0x7fffffff3ad0) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:248
248     fRestMass_c2= rStVec.fRestMass_c2;
$83 = 83
```

Thread 1 "basf2" hit Watchpoint 3: CurrentA_PointVelocity

```
Old value = {SixVector = {-501.63354271165764, 762.80627029431571, -
1453.9999999999964, -337.40868139648074, 192.37318288906397, -
597.9641120525406}, fDistanceAlongCurve = 60.873151330988605,
fKineticEnergy = 373.57735681140542, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 5.4118285644692099, fProperTimeOfFlight = 0,
fPolarization = {dx = 0, dy = 0, dz = 0, static tolerance = 2.22045e-14},
fMomentumDir = {dx = -0.46027170570111825, dy = 0.28992383456692367, dz =
-0.8391031683178144, static tolerance = 2.22045e-14}, fChargeState =
{fCharge = -1, fSpin = 0, fMagn_dipole = 0, fElec_dipole = 0,
fMagneticCharge = 0}}
New value = {SixVector = {-501.63354271165764, 762.80627029431571, -
1453.9999999999964, -337.40868139648074, 192.37318288906397, -
597.9641120525406}, fDistanceAlongCurve = 60.873151330988605,
fKineticEnergy = 373.57735681140542, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.46027170570111825, dy = 0.28992383456692367, dz = -0.8391031683178144,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
G4FieldTrack::operator= (rStVec=..., this=0x7fffffff3ad0) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:250
250     SetProperTimeOfFlight( rStVec.GetProperTimeOfFlight() );
$84 = 84
```

Thread 1 "basf2" hit Watchpoint 3: CurrentA_PointVelocity

```
Old value = {SixVector = {-501.63354271165764, 762.80627029431571, -
1453.9999999999964, -337.40868139648074, 192.37318288906397, -
597.9641120525406}, fDistanceAlongCurve = 60.873151330988605,
fKineticEnergy = 373.57735681140542, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.46027170570111825, dy = 0.28992383456692367, dz = -0.8391031683178144,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354271165764, 762.80627029431571, -
1453.9999999999964, -337.40868139648074, 192.37318288906397, -
597.9641120525406}, fDistanceAlongCurve = 60.873151330988605,
fKineticEnergy = 373.57735681140542, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320341460795373, dy = 0.28992383456692367, dz = -0.8391031683178144,
```

```
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
CLHEP::Hep3Vector::operator= (p=..., this=0x7fffffff3b40) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/Linux_x86_64/debug/include/CLHEP/Vector/ThreeVector.icc:132
132      dy = p.dy;
$85 = 85
```

Thread 1 "basf2" hit Watchpoint 3: CurrentA_PointVelocity

```
Old value = {SixVector = {-501.63354271165764, 762.80627029431571, -
1453.9999999999964, -337.40868139648074, 192.37318288906397, -
597.9641120525406}, fDistanceAlongCurve = 60.873151330988605,
fKineticEnergy = 373.57735681140542, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320341460795373, dy = 0.28992383456692367, dz = -0.8391031683178144,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354271165764, 762.80627029431571, -
1453.9999999999964, -337.40868139648074, 192.37318288906397, -
597.9641120525406}, fDistanceAlongCurve = 60.873151330988605,
fKineticEnergy = 373.57735681140542, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320341460795373, dy = 0.26979639837759944, dz = -0.8391031683178144,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
CLHEP::Hep3Vector::operator= (p=..., this=0x7fffffff3b40) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/Linux_x86_64/debug/include/CLHEP/Vector/ThreeVector.icc:133
133      dz = p.dz;
$86 = 86
```

Thread 1 "basf2" hit Watchpoint 3: CurrentA_PointVelocity

```
Old value = {SixVector = {-501.63354271165764, 762.80627029431571, -
1453.9999999999964, -337.40868139648074, 192.37318288906397, -
597.9641120525406}, fDistanceAlongCurve = 60.873151330988605,
fKineticEnergy = 373.57735681140542, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320341460795373, dy = 0.26979639837759944, dz = -0.8391031683178144,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354271165764, 762.80627029431571, -
1453.9999999999964, -337.40868139648074, 192.37318288906397, -
597.9641120525406}, fDistanceAlongCurve = 60.873151330988605,
fKineticEnergy = 373.57735681140542, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320341460795373, dy = 0.26979639837759944, dz = -0.83862293781284614,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
```

```
G4FieldTrack::operator= (rStVec=..., this=0x7fffffff3ad0) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:254
254     fChargeState= rStVec.fChargeState;
$87 = 87
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63354271120289, 762.80627029541233, -
1454.0000000002603, -337.40868138654605, 192.37318290640405, -
597.96411205256811}, fDistanceAlongCurve = 60.873151331298914,
fKineticEnergy = 373.57735681140559, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320341459402054, dy = 0.26979639840191821, dz = -0.83862293781288444,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354271120289, 762.80627029541233, -
1454.0000000002603, -337.40868139648074, 192.37318290640405, -
597.96411205256811}, fDistanceAlongCurve = 60.873151331298914,
fKineticEnergy = 373.57735681140559, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320341459402054, dy = 0.26979639840191821, dz = -0.83862293781288444,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
0x00002aaac7e8527e in G4FieldTrack::operator= (rStVec=...,
this=0x7fffffff3b80) at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:239
239     SixVector[0]= rStVec.SixVector[0];
$88 = 88
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63354271120289, 762.80627029541233, -
1454.0000000002603, -337.40868139648074, 192.37318290640405, -
597.96411205256811}, fDistanceAlongCurve = 60.873151331298914,
fKineticEnergy = 373.57735681140559, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320341459402054, dy = 0.26979639840191821, dz = -0.83862293781288444,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354271120289, 762.80627029541233, -
1454.0000000002603, -337.40868139648074, 192.37318290640405, -
597.96411205256811}, fDistanceAlongCurve = 60.873151331298914,
fKineticEnergy = 373.57735681140542, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320341459402054, dy = 0.26979639840191821, dz = -0.83862293781288444,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
```

```
G4FieldTrack::operator= (rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:251
251     SetPolarization( rStVec.GetPolarization() );
$89 = 89
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63354271120289, 762.80627029541233, -
1454.0000000002603, -337.40868139648074, 192.37318290640405, -
597.96411205256811}, fDistanceAlongCurve = 60.873151331298914,
fKineticEnergy = 373.57735681140542, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320341459402054, dy = 0.26979639840191821, dz = -0.83862293781288444,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354271120289, 762.80627029541233, -
1454.0000000002603, -337.40868139648074, 192.37318288906397, -
597.96411205256811}, fDistanceAlongCurve = 60.873151331298914,
fKineticEnergy = 373.57735681140542, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320341459402054, dy = 0.26979639840191821, dz = -0.83862293781288444,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
0x00002aaac7e852b3 in G4FieldTrack::operator= (rStVec=...,
this=0x7fffffff3b80) at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:239
239     SixVector[0]= rStVec.SixVector[0];
$90 = 90
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63354271120289, 762.80627029541233, -
1454.0000000002603, -337.40868139648074, 192.37318288906397, -
597.96411205256811}, fDistanceAlongCurve = 60.873151331298914,
fKineticEnergy = 373.57735681140542, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320341459402054, dy = 0.26979639840191821, dz = -0.83862293781288444,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354271165764, 762.80627029541233, -
1454.0000000002603, -337.40868139648074, 192.37318288906397, -
597.96411205256811}, fDistanceAlongCurve = 60.873151331298914,
fKineticEnergy = 373.57735681140542, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320341459402054, dy = 0.26979639840191821, dz = -0.83862293781288444,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
```

```
G4FieldTrack::operator= (rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:240
240     SixVector[1]= rStVec.SixVector[1];
$91 = 91
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63354271165764, 762.80627029541233, -
1454.0000000002603, -337.40868139648074, 192.37318288906397, -
597.96411205256811}, fDistanceAlongCurve = 60.873151331298914,
fKineticEnergy = 373.57735681140542, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320341459402054, dy = 0.26979639840191821, dz = -0.83862293781288444,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354271165764, 762.80627029541233, -
1454.0000000002603, -337.40868139648074, 192.37318288906397, -
597.9641120525406}, fDistanceAlongCurve = 60.873151331298914,
fKineticEnergy = 373.57735681140542, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320341459402054, dy = 0.26979639840191821, dz = -0.83862293781288444,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
0x00002aaac7e852d5 in G4FieldTrack::operator= (rStVec=...,
this=0x7fffffff3b80) at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:240
240     SixVector[1]= rStVec.SixVector[1];
$92 = 92
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63354271165764, 762.80627029541233, -
1454.0000000002603, -337.40868139648074, 192.37318288906397, -
597.9641120525406}, fDistanceAlongCurve = 60.873151331298914,
fKineticEnergy = 373.57735681140542, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320341459402054, dy = 0.26979639840191821, dz = -0.83862293781288444,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354271165764, 762.80627029431571, -
1454.0000000002603, -337.40868139648074, 192.37318288906397, -
597.9641120525406}, fDistanceAlongCurve = 60.873151331298914,
fKineticEnergy = 373.57735681140542, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320341459402054, dy = 0.26979639840191821, dz = -0.83862293781288444,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
```

```
G4FieldTrack::operator= (rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:241
241     SixVector[2]= rStVec.SixVector[2];
$93 = 93
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63354271165764, 762.80627029431571, -
1454.0000000002603, -337.40868139648074, 192.37318288906397, -
597.9641120525406}, fDistanceAlongCurve = 60.873151331298914,
fKineticEnergy = 373.57735681140542, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320341459402054, dy = 0.26979639840191821, dz = -0.83862293781288444,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354271165764, 762.80627029431571, -
1454.0000000002603, -337.40868139648074, 192.37318288906397, -
597.9641120525406}, fDistanceAlongCurve = 60.873151330988605,
fKineticEnergy = 373.57735681140542, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320341459402054, dy = 0.26979639840191821, dz = -0.83862293781288444,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
0x00002aaac7e852f7 in G4FieldTrack::operator= (rStVec=...,
this=0x7fffffff3b80) at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:241
241     SixVector[2]= rStVec.SixVector[2];
$94 = 94
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63354271165764, 762.80627029431571, -
1454.0000000002603, -337.40868139648074, 192.37318288906397, -
597.9641120525406}, fDistanceAlongCurve = 60.873151330988605,
fKineticEnergy = 373.57735681140542, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320341459402054, dy = 0.26979639840191821, dz = -0.83862293781288444,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354271165764, 762.80627029431571, -
1453.9999999999964, -337.40868139648074, 192.37318288906397, -
597.9641120525406}, fDistanceAlongCurve = 60.873151330988605,
fKineticEnergy = 373.57735681140542, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320341459402054, dy = 0.26979639840191821, dz = -0.83862293781288444,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
```

```
G4FieldTrack::operator= (rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:248
248     fRestMass_c2= rStVec.fRestMass_c2;
$95 = 95
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63354271165764, 762.80627029431571, -
1453.9999999999964, -337.40868139648074, 192.37318288906397, -
597.9641120525406}, fDistanceAlongCurve = 60.873151330988605,
fKineticEnergy = 373.57735681140542, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320341459402054, dy = 0.26979639840191821, dz = -0.83862293781288444,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354271165764, 762.80627029431571, -
1453.9999999999964, -337.40868139648074, 192.37318288906397, -
597.9641120525406}, fDistanceAlongCurve = 60.873151330988605,
fKineticEnergy = 373.57735681140542, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320341460795373, dy = 0.26979639840191821, dz = -0.83862293781288444,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
G4FieldTrack::operator= (rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:254
254     fChargeState= rStVec.fChargeState;
$96 = 96
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63354271165764, 762.80627029431571, -
1453.9999999999964, -337.40868139648074, 192.37318288906397, -
597.9641120525406}, fDistanceAlongCurve = 60.873151330988605,
fKineticEnergy = 373.57735681140542, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320341460795373, dy = 0.26979639840191821, dz = -0.83862293781288444,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354271165764, 762.80627029431571, -
1453.9999999999964, -337.40868139648074, 192.37318288906397, -
597.9641120525406}, fDistanceAlongCurve = 60.873151330988605,
fKineticEnergy = 373.57735681140542, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320341460795373, dy = 0.26979639837759944, dz = -0.83862293781288444,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
```

```
G4FieldTrack::operator= (rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:254
254      fChargeState= rStVec.fChargeState;
$97 = 97
```

Thread 1 "basf2" hit Watchpoint 4: CurrentB_PointVelocity

```
Old value = {SixVector = {-501.63354271165764, 762.80627029431571, -
1453.9999999999964, -337.40868139648074, 192.37318288906397, -
597.9641120525406}, fDistanceAlongCurve = 60.873151330988605,
fKineticEnergy = 373.57735681140542, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320341460795373, dy = 0.26979639837759944, dz = -0.83862293781288444,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
New value = {SixVector = {-501.63354271165764, 762.80627029431571, -
1453.9999999999964, -337.40868139648074, 192.37318288906397, -
597.9641120525406}, fDistanceAlongCurve = 60.873151330988605,
fKineticEnergy = 373.57735681140542, fRestMass_c2 = 493.67699999999996,
fLabTimeOfFlight = 0, fProperTimeOfFlight = 0, fPolarization = {dx = 0, dy
= 0, dz = 0, static tolerance = 2.22045e-14}, fMomentumDir = {dx = -
0.47320341460795373, dy = 0.26979639837759944, dz = -0.83862293781284614,
static tolerance = 2.22045e-14}, fChargeState = {fCharge = -1, fSpin = 0,
fMagn_dipole = 0, fElec_dipole = 0, fMagneticCharge = 0}}
G4FieldTrack::operator= (rStVec=..., this=0x7fffffff3b80) at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/include/G4FieldTrack.icc:254
254      fChargeState= rStVec.fChargeState;
$98 = 98
0x00002aaac7ead7b8 in G4PropagatorInField::ComputeStep(G4FieldTrack&,
double, double&, G4VPhysicalVolume*) () at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4PropagatorInField.cc:358
358      G4bool found_intersection = fIntersectionLocator->
$99 = 99
[Inferior 1 (process 14108) exited normally]
$100 = 100
```


Backup #2

Breakpoint 2 at 0x2aaac7e5a41f: file
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/src/G4MagIntegratorDriver.cc,
line 166.

[New Thread 0x2aaad8d7a700 (LWP 3853)]
[Thread 0x2aaad8d7a700 (LWP 3853) exited]

Thread 1 "basf2" hit Breakpoint 2,
G4MagInt_Driver::AccurateAdvance(G4FieldTrack&, double, double, double) ()
at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/src/G4MagIntegratorDriver.cc:1
67
167 std::ostringstream message;
***** hstep = 0 is hit! (Short) backtrace is

***** Access to G4PropagatorInField::ComputeStep in order to read
G4VPhysicalVolume *****
#3 0x00002aaac7ead7b8 in G4PropagatorInField::ComputeStep(G4FieldTrack&,
double, double&, G4VPhysicalVolume*) () at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4PropagatorInField.cc:358
358 G4bool found_intersection = fIntersectionLocator->
***** Printing pPhysVol->GetName()

\$1 = {<std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> >> = {static npos = 18446744073709551615, _M_dataplus
= {<std::allocator<char> > = {<__gnu_cxx::new_allocator<char> > = {<No data
fields>}, <No data fields>}, _M_p = 0x7fffffff4050 "Top"},
_M_string_length = 3, {_M_local_buf = "Top\000\000\000\000\000
\203\071\$\000\000\000", _M_allocated_capacity = 7368532}}, <No data
fields>}

Thread 1 "basf2" hit Breakpoint 2,
G4MagInt_Driver::AccurateAdvance(G4FieldTrack&, double, double, double) ()
at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/src/G4MagIntegratorDriver.cc:1
67
167 std::ostringstream message;
***** hstep = 0 is hit! (Short) backtrace is

***** Access to G4PropagatorInField::ComputeStep in order to read
G4VPhysicalVolume *****
#3 0x00002aaac7ead7b8 in G4PropagatorInField::ComputeStep(G4FieldTrack&,
double, double&, G4VPhysicalVolume*) () at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4PropagatorInField.cc:358
358 G4bool found_intersection = fIntersectionLocator->
***** Printing pPhysVol->GetName()

\$2 = {<std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> >> = {static npos = 18446744073709551615, _M_dataplus
= {<std::allocator<char> > = {<__gnu_cxx::new_allocator<char> > = {<No data
fields>}, <No data fields>}, _M_p = 0x333a2fb0
"ECLBackwardSectorPhysical"}, _M_string_length = 25, {_M_local_buf =

```
"\031\000\000\000\000\000\000\000\017\066/\253\252*\000",  
_M_allocated_capacity = 25}}}, <No data fields>}
```

```
Thread 1 "basf2" hit Breakpoint 2,  
G4MagInt_Driver::AccurateAdvance(G4FieldTrack&, double, double, double) ()  
at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-  
01/src/geant4/source/geometry/magneticfield/src/G4MagIntegratorDriver.cc:1  
67  
167          std::ostringstream message;  
***** hstep = 0 is hit! (Short) backtrace is  
*****  
***** Access to G4PropagatorInField::ComputeStep in order to read  
G4VPhysicalVolume *****  
#3  0x00002aaac7ead7b8 in G4PropagatorInField::ComputeStep(G4FieldTrack&,  
double, double&, G4VPhysicalVolume*) () at  
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-  
01/src/geant4/source/geometry/navigation/src/G4PropagatorInField.cc:358  
358          G4bool found_intersection = fIntersectionLocator->  
***** Printing pPhysVol->GetName()  
*****  
$3 = {<std::__cxx11::basic_string<char, std::char_traits<char>,  
std::allocator<char> >> = {static npos = 18446744073709551615, _M_dataplus  
= {<std::allocator<char> > = {<__gnu_cxx::new_allocator<char> > = {<No data  
fields>}, <No data fields>}, _M_p = 0x7fffffff4b70 "SVD.Envelope"},  
_M_string_length = 12, {_M_local_buf = "SVD.Envelope\000*\000",  
_M_allocated_capacity = 7311152288490608211}}}, <No data fields>}
```

```
Thread 1 "basf2" hit Breakpoint 2,  
G4MagInt_Driver::AccurateAdvance(G4FieldTrack&, double, double, double) ()  
at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-  
01/src/geant4/source/geometry/magneticfield/src/G4MagIntegratorDriver.cc:1  
67  
167          std::ostringstream message;  
***** hstep = 0 is hit! (Short) backtrace is  
*****  
***** Access to G4PropagatorInField::ComputeStep in order to read  
G4VPhysicalVolume *****  
#3  0x00002aaac7ead7b8 in G4PropagatorInField::ComputeStep(G4FieldTrack&,  
double, double&, G4VPhysicalVolume*) () at  
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-  
01/src/geant4/source/geometry/navigation/src/G4PropagatorInField.cc:358  
358          G4bool found_intersection = fIntersectionLocator->  
***** Printing pPhysVol->GetName()  
*****  
$4 = {<std::__cxx11::basic_string<char, std::char_traits<char>,  
std::allocator<char> >> = {static npos = 18446744073709551615, _M_dataplus  
= {<std::allocator<char> > = {<__gnu_cxx::new_allocator<char> > = {<No data  
fields>}, <No data fields>}, _M_p = 0x7fffffff4b70 "SVD.Envelope"},  
_M_string_length = 12, {_M_local_buf = "SVD.Envelope\000*\000",  
_M_allocated_capacity = 7311152288490608211}}}, <No data fields>}
```

```
Thread 1 "basf2" hit Breakpoint 2,  
G4MagInt_Driver::AccurateAdvance(G4FieldTrack&, double, double, double) ()  
at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
```

```

01/src/geant4/source/geometry/magneticfield/src/G4MagIntegratorDriver.cc:1
67
167         std::ostringstream message;
***** hstep = 0 is hit! (Short) backtrace is
*****
***** Access to G4PropagatorInField::ComputeStep in order to read
G4VPhysicalVolume *****
#3  0x00002aaac7ead7b8 in G4PropagatorInField::ComputeStep(G4FieldTrack&,
double, double&, G4VPhysicalVolume*) () at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4PropagatorInField.cc:358
358         G4bool found_intersection = fIntersectionLocator->
***** Printing pPhysVol->GetName()
*****
$5 = {<std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> >> = {static npos = 18446744073709551615, _M_dataplus
= {<std::allocator<char> >> = {<__gnu_cxx::new_allocator<char> >> = {<No data
fields>}, <No data fields>}, _M_p = 0x7fffffff4050 "physicalCDC"},
_M_string_length = 11, {_M_local_buf = "physicalCDC\000\000\000\000",
_M_allocated_capacity = 7809632533397203056}}, <No data fields>}

Thread 1 "basf2" hit Breakpoint 2,
G4MagInt_Driver::AccurateAdvance(G4FieldTrack&, double, double, double) ()
at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/src/G4MagIntegratorDriver.cc:1
67
167         std::ostringstream message;
***** hstep = 0 is hit! (Short) backtrace is
*****
***** Access to G4PropagatorInField::ComputeStep in order to read
G4VPhysicalVolume *****
#3  0x00002aaac7ead7b8 in G4PropagatorInField::ComputeStep(G4FieldTrack&,
double, double&, G4VPhysicalVolume*) () at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4PropagatorInField.cc:358
358         G4bool found_intersection = fIntersectionLocator->
***** Printing pPhysVol->GetName()
*****
$6 = {<std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> >> = {static npos = 18446744073709551615, _M_dataplus
= {<std::allocator<char> >> = {<__gnu_cxx::new_allocator<char> >> = {<No data
fields>}, <No data fields>}, _M_p = 0x7fffffff4050 "Top"},
_M_string_length = 3, {_M_local_buf = "Top\000\000\000\000\000
\203\071$\000\000\000", _M_allocated_capacity = 7368532}}, <No data
fields>}

Thread 1 "basf2" hit Breakpoint 2,
G4MagInt_Driver::AccurateAdvance(G4FieldTrack&, double, double, double) ()
at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/src/G4MagIntegratorDriver.cc:1
67
167         std::ostringstream message;
***** hstep = 0 is hit! (Short) backtrace is
*****

```

```

***** Access to G4PropagatorInField::ComputeStep in order to read
G4VPhysicalVolume *****
#3  0x00002aaac7ead7b8 in G4PropagatorInField::ComputeStep(G4FieldTrack&,
double, double&, G4VPhysicalVolume*) () at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4PropagatorInField.cc:358
358      G4bool found_intersection = fIntersectionLocator->
***** Printing pPhysVol->GetName()
*****
$7 = {<std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> >> = {static npos = 18446744073709551615, _M_dataplus
= {<std::allocator<char> > = {<__gnu_cxx::new_allocator<char> > = {<No data
fields>}, <No data fields>}, _M_p = 0x7fffffff3960 "Top"},
_M_string_length = 3, {_M_local_buf = "Top\000\000\000\000\000
\203\071$\000\000\000", _M_allocated_capacity = 7368532}}, <No data
fields>}

Thread 1 "basf2" hit Breakpoint 2,
G4MagInt_Driver::AccurateAdvance(G4FieldTrack&, double, double, double) ()
at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/src/G4MagIntegratorDriver.cc:1
67
167      std::ostream message;
***** hstep = 0 is hit! (Short) backtrace is
*****
***** Access to G4PropagatorInField::ComputeStep in order to read
G4VPhysicalVolume *****
#3  0x00002aaac7ead7b8 in G4PropagatorInField::ComputeStep(G4FieldTrack&,
double, double&, G4VPhysicalVolume*) () at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4PropagatorInField.cc:358
358      G4bool found_intersection = fIntersectionLocator->
***** Printing pPhysVol->GetName()
*****
$8 = {<std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> >> = {static npos = 18446744073709551615, _M_dataplus
= {<std::allocator<char> > = {<__gnu_cxx::new_allocator<char> > = {<No data
fields>}, <No data fields>}, _M_p = 0x7fffffff4050 "physicalCDC"},
_M_string_length = 11, {_M_local_buf = "physicalCDC\000\000\000\000",
_M_allocated_capacity = 780963253397203056}}, <No data fields>}

Thread 1 "basf2" hit Breakpoint 2,
G4MagInt_Driver::AccurateAdvance(G4FieldTrack&, double, double, double) ()
at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/src/G4MagIntegratorDriver.cc:1
67
167      std::ostream message;
***** hstep = 0 is hit! (Short) backtrace is
*****
***** Access to G4PropagatorInField::ComputeStep in order to read
G4VPhysicalVolume *****
#3  0x00002aaac7ead7b8 in G4PropagatorInField::ComputeStep(G4FieldTrack&,
double, double&, G4VPhysicalVolume*) () at

```

```

/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4PropagatorInField.cc:358
358      G4bool found_intersection = fIntersectionLocator->
***** Printing pPhysVol->GetName()
*****
$9 = {<std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> >> = {static npos = 18446744073709551615, _M_dataplus
= {<std::allocator<char> > = {<__gnu_cxx::new_allocator<char> > = {<No data
fields>}, <No data fields>}, _M_p = 0x30b02380
"ECLBackwardSectorPhysical"}, _M_string_length = 25, {_M_local_buf =
"\031\000\000\000\000\000\000\000\017\066/\253\252*\000",
_M_allocated_capacity = 25}}}, <No data fields>}

Thread 1 "basf2" hit Breakpoint 2,
G4MagInt_Driver::AccurateAdvance(G4FieldTrack&, double, double, double) ()
at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/src/G4MagIntegratorDriver.cc:1
67
167      std::ostringstream message;
***** hstep = 0 is hit! (Short) backtrace is
*****
***** Access to G4PropagatorInField::ComputeStep in order to read
G4VPhysicalVolume *****
#3  0x00002aaac7ead7b8 in G4PropagatorInField::ComputeStep(G4FieldTrack&,
double, double&, G4VPhysicalVolume*) () at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4PropagatorInField.cc:358
358      G4bool found_intersection = fIntersectionLocator->
***** Printing pPhysVol->GetName()
*****
$10 = {<std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> >> = {static npos = 18446744073709551615, _M_dataplus
= {<std::allocator<char> > = {<__gnu_cxx::new_allocator<char> > = {<No data
fields>}, <No data fields>}, _M_p = 0x7fffffff4050 "Top"},
_M_string_length = 3, {_M_local_buf = "Top\000\000\000\000\000
\203\071$\000\000\000", _M_allocated_capacity = 7368532}}}, <No data
fields>}

Thread 1 "basf2" hit Breakpoint 2,
G4MagInt_Driver::AccurateAdvance(G4FieldTrack&, double, double, double) ()
at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/src/G4MagIntegratorDriver.cc:1
67
167      std::ostringstream message;
***** hstep = 0 is hit! (Short) backtrace is
*****
***** Access to G4PropagatorInField::ComputeStep in order to read
G4VPhysicalVolume *****
#3  0x00002aaac7ead7b8 in G4PropagatorInField::ComputeStep(G4FieldTrack&,
double, double&, G4VPhysicalVolume*) () at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4PropagatorInField.cc:358
358      G4bool found_intersection = fIntersectionLocator->

```

```

***** Printing pPhysVol->GetName()
*****
$11 = {<std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> >> = {static npos = 18446744073709551615, _M_dataplus
= {<std::allocator<char> > = {<__gnu_cxx::new_allocator<char> > = {<No data
fields>}, <No data fields>}, _M_p = 0x29298130
"ECLBackwardSectorPhysical"}, _M_string_length = 25, {_M_local_buf =
"\031\000\000\000\000\000\000\000 \203\071$\000\000\000",
_M_allocated_capacity = 25}}}, <No data fields>}

```

```

Thread 1 "basf2" hit Breakpoint 2,
G4MagInt_Driver::AccurateAdvance(G4FieldTrack&, double, double, double) ()
at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/src/G4MagIntegratorDriver.cc:1
67

```

```

167         std::ostringstream message;
***** hstep = 0 is hit! (Short) backtrace is
*****
***** Access to G4PropagatorInField::ComputeStep in order to read
G4VPhysicalVolume *****
#3  0x00002aaac7ead7b8 in G4PropagatorInField::ComputeStep(G4FieldTrack&,
double, double&, G4VPhysicalVolume*) () at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4PropagatorInField.cc:358
358         G4bool found_intersection = fIntersectionLocator->
***** Printing pPhysVol->GetName()
*****
$12 = {<std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> >> = {static npos = 18446744073709551615, _M_dataplus
= {<std::allocator<char> > = {<__gnu_cxx::new_allocator<char> > = {<No data
fields>}, <No data fields>}, _M_p = 0x339dcec0
"ECLBackwardSectorPhysical"}, _M_string_length = 25, {_M_local_buf =
"\031\000\000\000\000\000\000\000 \203\071$\000\000\000",
_M_allocated_capacity = 25}}}, <No data fields>}

```

```

Thread 1 "basf2" hit Breakpoint 2,
G4MagInt_Driver::AccurateAdvance(G4FieldTrack&, double, double, double) ()
at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/src/G4MagIntegratorDriver.cc:1
67

```

```

167         std::ostringstream message;
***** hstep = 0 is hit! (Short) backtrace is
*****
***** Access to G4PropagatorInField::ComputeStep in order to read
G4VPhysicalVolume *****
#3  0x00002aaac7ead7b8 in G4PropagatorInField::ComputeStep(G4FieldTrack&,
double, double&, G4VPhysicalVolume*) () at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4PropagatorInField.cc:358
358         G4bool found_intersection = fIntersectionLocator->
***** Printing pPhysVol->GetName()
*****
$13 = {<std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> >> = {static npos = 18446744073709551615, _M_dataplus

```

```
= {<std::allocator<char>> = {<__gnu_cxx::new_allocator<char>> = {<No data
fields>}, <No data fields>}, _M_p = 0x7fffffff4b70 "SVD.Envelope"},
_M_string_length = 12, {_M_local_buf = "SVD.Envelope\000*\000",
_M_allocated_capacity = 7311152288490608211}}, <No data fields>}
```

```
Thread 1 "basf2" hit Breakpoint 2,
G4MagInt_Driver::AccurateAdvance(G4FieldTrack&, double, double, double) ()
at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/src/G4MagIntegratorDriver.cc:1
67
```

```
167          std::ostringstream message;
***** hstep = 0 is hit! (Short) backtrace is
*****
***** Access to G4PropagatorInField::ComputeStep in order to read
G4VPhysicalVolume *****
#3  0x00002aaac7ead7b8 in G4PropagatorInField::ComputeStep(G4FieldTrack&,
double, double&, G4VPhysicalVolume*) () at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4PropagatorInField.cc:358
358          G4bool found_intersection = fIntersectionLocator->
***** Printing pPhysVol->GetName()
*****
$14 = {<std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char>> > = {static npos = 18446744073709551615, _M_dataplus
= {<std::allocator<char>> = {<__gnu_cxx::new_allocator<char>> = {<No data
fields>}, <No data fields>}, _M_p = 0x7fffffff4050 "physicalCDC"},
_M_string_length = 11, {_M_local_buf = "physicalCDC\000\000\000\000",
_M_allocated_capacity = 7809632533397203056}}, <No data fields>}
```

```
Thread 1 "basf2" hit Breakpoint 2,
G4MagInt_Driver::AccurateAdvance(G4FieldTrack&, double, double, double) ()
at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/src/G4MagIntegratorDriver.cc:1
67
```

```
167          std::ostringstream message;
***** hstep = 0 is hit! (Short) backtrace is
*****
***** Access to G4PropagatorInField::ComputeStep in order to read
G4VPhysicalVolume *****
#3  0x00002aaac7ead7b8 in G4PropagatorInField::ComputeStep(G4FieldTrack&,
double, double&, G4VPhysicalVolume*) () at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4PropagatorInField.cc:358
358          G4bool found_intersection = fIntersectionLocator->
***** Printing pPhysVol->GetName()
*****
$15 = {<std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char>> > = {static npos = 18446744073709551615, _M_dataplus
= {<std::allocator<char>> = {<__gnu_cxx::new_allocator<char>> = {<No data
fields>}, <No data fields>}, _M_p = 0x7fffffff4050 "Top"},
_M_string_length = 3, {_M_local_buf = "Top\000\000\000\000\000
\203\071$\000\000\000", _M_allocated_capacity = 7368532}}, <No data
fields>}
```

```

Thread 1 "basf2" hit Breakpoint 2,
G4MagInt_Driver::AccurateAdvance(G4FieldTrack&, double, double, double) ()
at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/src/G4MagIntegratorDriver.cc:1
67
167          std::ostream message;
***** hstep = 0 is hit! (Short) backtrace is
*****
***** Access to G4PropagatorInField::ComputeStep in order to read
G4VPhysicalVolume *****
#3  0x00002aaac7ead7b8 in G4PropagatorInField::ComputeStep(G4FieldTrack&,
double, double&, G4VPhysicalVolume*) () at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4PropagatorInField.cc:358
358          G4bool found_intersection = fIntersectionLocator->
***** Printing pPhysVol->GetName()
*****
$16 = {<std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> >> = {static npos = 18446744073709551615, _M_dataplus
= {<std::allocator<char> > = {<__gnu_cxx::new_allocator<char> > = {<No data
fields>}, <No data fields>}, _M_p = 0x33b5b890
"ECLBackwardSectorPhysical"}, _M_string_length = 25, {_M_local_buf =
"\031\000\000\000\000\000\000\000 \203\071$\000\000\000",
_M_allocated_capacity = 25}}}, <No data fields>}

```

```

Thread 1 "basf2" hit Breakpoint 2,
G4MagInt_Driver::AccurateAdvance(G4FieldTrack&, double, double, double) ()
at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/src/G4MagIntegratorDriver.cc:1
67
167          std::ostream message;
***** hstep = 0 is hit! (Short) backtrace is
*****
***** Access to G4PropagatorInField::ComputeStep in order to read
G4VPhysicalVolume *****
#3  0x00002aaac7ead7b8 in G4PropagatorInField::ComputeStep(G4FieldTrack&,
double, double&, G4VPhysicalVolume*) () at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4PropagatorInField.cc:358
358          G4bool found_intersection = fIntersectionLocator->
***** Printing pPhysVol->GetName()
*****
$17 = {<std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> >> = {static npos = 18446744073709551615, _M_dataplus
= {<std::allocator<char> > = {<__gnu_cxx::new_allocator<char> > = {<No data
fields>}, <No data fields>}, _M_p = 0x31253c20
"ECLBackwardSectorPhysical"}, _M_string_length = 25, {_M_local_buf =
"\031\000\000\000\000\000\000\000 \203\071$\000\000\000",
_M_allocated_capacity = 25}}}, <No data fields>}

```

```

Thread 1 "basf2" hit Breakpoint 2,
G4MagInt_Driver::AccurateAdvance(G4FieldTrack&, double, double, double) ()
at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-

```



```

01/src/geant4/source/geometry/magneticfield/src/G4MagIntegratorDriver.cc:1
67
167         std::ostream message;
***** hstep = 0 is hit! (Short) backtrace is
*****
***** Access to G4PropagatorInField::ComputeStep in order to read
G4VPhysicalVolume *****
#3  0x00002aaac7ead7b8 in G4PropagatorInField::ComputeStep(G4FieldTrack&,
double, double&, G4VPhysicalVolume*) () at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4PropagatorInField.cc:358
358         G4bool found_intersection = fIntersectionLocator->
***** Printing pPhysVol->GetName()
*****
$18 = {<std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> >> = {static npos = 18446744073709551615, _M_dataplus
= {<std::allocator<char> > = {<__gnu_cxx::new_allocator<char> > = {<No data
fields>}, <No data fields>}, _M_p = 0x337b8050
"ECLBarrelSectorPhysical_29"}, _M_string_length = 26, { _M_local_buf =
"\032\000\000\000\000\000\000\000 \203\071$\000\000\000",
_M_allocated_capacity = 26}}}, <No data fields>}

Thread 1 "basf2" hit Breakpoint 2,
G4MagInt_Driver::AccurateAdvance(G4FieldTrack&, double, double, double) ()
at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/src/G4MagIntegratorDriver.cc:1
67
167         std::ostream message;
***** hstep = 0 is hit! (Short) backtrace is
*****
***** Access to G4PropagatorInField::ComputeStep in order to read
G4VPhysicalVolume *****
#3  0x00002aaac7ead7b8 in G4PropagatorInField::ComputeStep(G4FieldTrack&,
double, double&, G4VPhysicalVolume*) () at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4PropagatorInField.cc:358
358         G4bool found_intersection = fIntersectionLocator->
***** Printing pPhysVol->GetName()
*****
$19 = {<std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> >> = {static npos = 18446744073709551615, _M_dataplus
= {<std::allocator<char> > = {<__gnu_cxx::new_allocator<char> > = {<No data
fields>}, <No data fields>}, _M_p = 0x314fecf0
"ECLBackwardSectorPhysical"}, _M_string_length = 25, { _M_local_buf =
"\031\000\000\000\000\000\000\000 \203\071$\000\000\000",
_M_allocated_capacity = 25}}}, <No data fields>}

Thread 1 "basf2" hit Breakpoint 2,
G4MagInt_Driver::AccurateAdvance(G4FieldTrack&, double, double, double) ()
at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/src/G4MagIntegratorDriver.cc:1
67
167         std::ostream message;

```

```

***** hstep = 0 is hit! (Short) backtrace is
*****
***** Access to G4PropagatorInField::ComputeStep in order to read
G4VPhysicalVolume *****
#3  0x00002aaac7ead7b8 in G4PropagatorInField::ComputeStep(G4FieldTrack&,
double, double&, G4VPhysicalVolume*) () at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4PropagatorInField.cc:358
358      G4bool found_intersection = fIntersectionLocator->
***** Printing pPhysVol->GetName()
*****
$20 = {<std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> >> = {static npos = 18446744073709551615, _M_dataplus
= {<std::allocator<char> > = {<__gnu_cxx::new_allocator<char> > = {<No data
fields>}, <No data fields>}, _M_p = 0x7fffffff4050 "Top"},
_M_string_length = 3, {_M_local_buf = "Top\000\000\000\000\000
\203\071$\000\000\000", _M_allocated_capacity = 7368532}}, <No data
fields>}

```

```

Thread 1 "basf2" hit Breakpoint 2,
G4MagInt_Driver::AccurateAdvance(G4FieldTrack&, double, double, double) ()
at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/src/G4MagIntegratorDriver.cc:1
67
167      std::ostream message;
***** hstep = 0 is hit! (Short) backtrace is
*****
***** Access to G4PropagatorInField::ComputeStep in order to read
G4VPhysicalVolume *****
#3  0x00002aaac7ead7b8 in G4PropagatorInField::ComputeStep(G4FieldTrack&,
double, double&, G4VPhysicalVolume*) () at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4PropagatorInField.cc:358
358      G4bool found_intersection = fIntersectionLocator->
***** Printing pPhysVol->GetName()
*****
$21 = {<std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> >> = {static npos = 18446744073709551615, _M_dataplus
= {<std::allocator<char> > = {<__gnu_cxx::new_allocator<char> > = {<No data
fields>}, <No data fields>}, _M_p = 0x331e9b10
"ECLBarrelSectorPhysical_13"}, _M_string_length = 26, {_M_local_buf =
"\032\000\000\000\000\000\000\000\204\003\030\370\352\203\333?",
_M_allocated_capacity = 26}}, <No data fields>}

```

```

Thread 1 "basf2" hit Breakpoint 2,
G4MagInt_Driver::AccurateAdvance(G4FieldTrack&, double, double, double) ()
at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/src/G4MagIntegratorDriver.cc:1
67
167      std::ostream message;
***** hstep = 0 is hit! (Short) backtrace is
*****
***** Access to G4PropagatorInField::ComputeStep in order to read
G4VPhysicalVolume *****

```

```

#3  0x00002aaac7ead7b8 in G4PropagatorInField::ComputeStep(G4FieldTrack&,
double, double&, G4VPhysicalVolume*) () at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4PropagatorInField.cc:358
358          G4bool found_intersection = fIntersectionLocator->
***** Printing pPhysVol->GetName()
*****
$22 = {<std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> >> = {static npos = 18446744073709551615, _M_dataplus
= {<std::allocator<char> >> = {<__gnu_cxx::new_allocator<char> >> = {<No data
fields>}, <No data fields>}, _M_p = 0x7fffffff4050 "Top"},
_M_string_length = 3, {_M_local_buf = "Top\000\000\000\000\000
\203\071$\000\000\000", _M_allocated_capacity = 7368532}}, <No data
fields>}

Thread 1 "basf2" hit Breakpoint 2,
G4MagInt_Driver::AccurateAdvance(G4FieldTrack&, double, double, double) ()
at /gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/magneticfield/src/G4MagIntegratorDriver.cc:1
67
167          std::ostream message;
***** hstep = 0 is hit! (Short) backtrace is
*****
***** Access to G4PropagatorInField::ComputeStep in order to read
G4VPhysicalVolume *****
#3  0x00002aaac7ead7b8 in G4PropagatorInField::ComputeStep(G4FieldTrack&,
double, double&, G4VPhysicalVolume*) () at
/gpfs/home/belle2/sangsik/sl6/externals/v01-07-
01/src/geant4/source/geometry/navigation/src/G4PropagatorInField.cc:358
358          G4bool found_intersection = fIntersectionLocator->
***** Printing pPhysVol->GetName()
*****
$23 = {<std::__cxx11::basic_string<char, std::char_traits<char>,
std::allocator<char> >> = {static npos = 18446744073709551615, _M_dataplus
= {<std::allocator<char> >> = {<__gnu_cxx::new_allocator<char> >> = {<No data
fields>}, <No data fields>}, _M_p = 0x7fffffff3960 "Top"},
_M_string_length = 3, {_M_local_buf = "Top\000\000\000\000\000
\203\071$\000\000\000", _M_allocated_capacity = 7368532}}, <No data
fields>}
[Inferior 1 (process 2464) exited normally]
***** hstep = 0 is hit! (Short) backtrace is
*****
.input_muons.in:39: Error in sourced command file:
No stack.

```