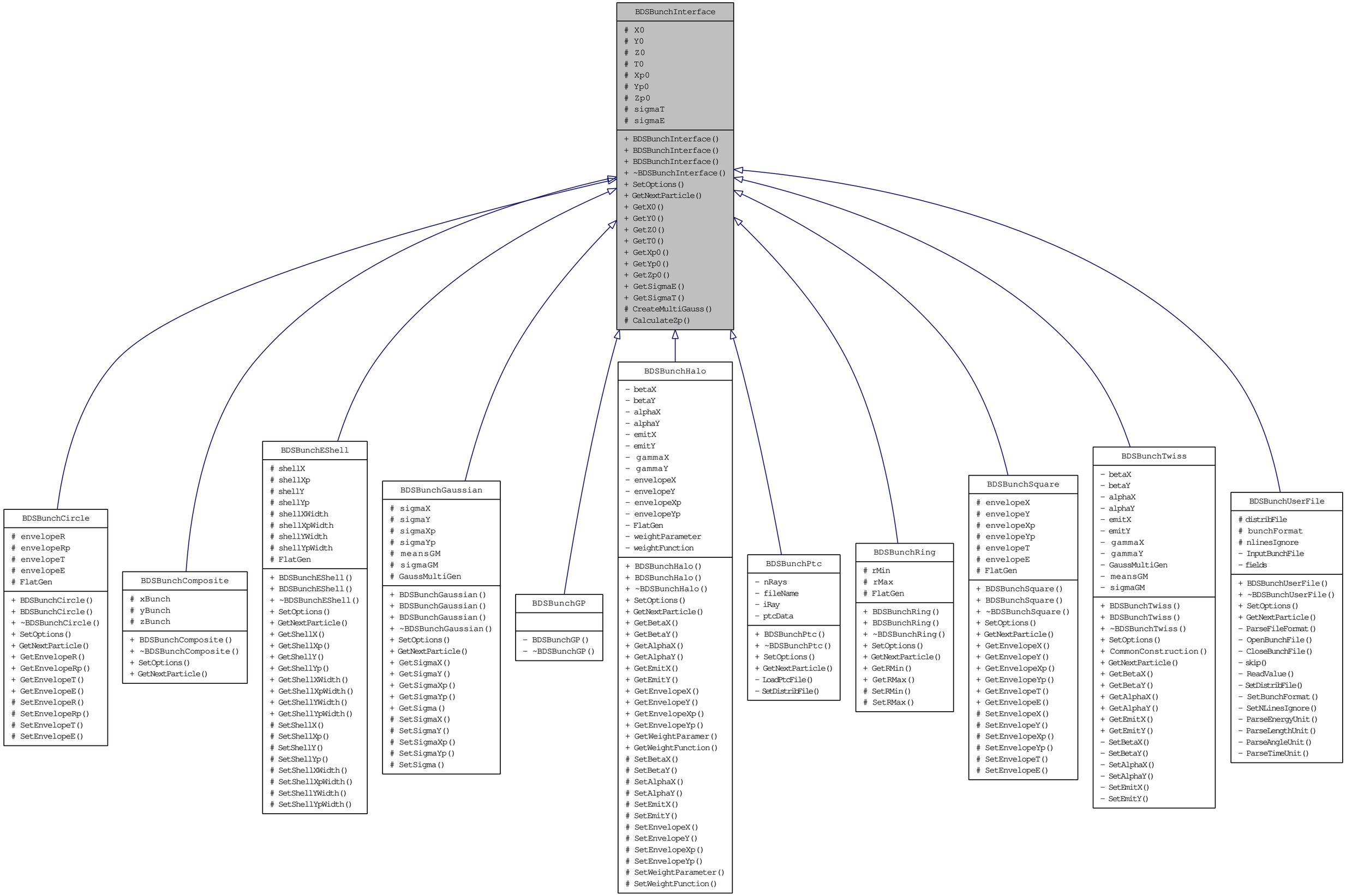
BDSBunchInterface
X0
Y0
Z0
T0
Xp0
Yp0
Zp0
sigmaT
sigmaE
+ BDSBunchInterface()
+ BDSBunchInterface()
+ BDSBunchInterface()
+ ~BDSBunchInterface()
+ SetOptions()
+ GetNextParticle()
+ GetX0()
+ GetY0()
+ GetZ0()
+ GetT0()
+ GetXp0()
+ GetYp0()
+ GetZp0()
+ GetSigmaE()
+ GetSigmaT()
# CreateMultiGauss()
# CalculateZp()
BDSBunchCircle
envelopeR
envelopeRp
envelopeT
envelopeE
FlatGen
+ BDSBunchCircle()
+ BDSBunchCircle()
+ ~BDSBunchCircle()
+ SetOptions()
+ GetNextParticle()
+ GetEnvelopeR()
+ GetEnvelopeRp()
+ GetEnvelopeT()
+ GetEnvelopeE()
# SetEnvelopeR()
# SetEnvelopeRp()
# SetEnvelopeT()
# SetEnvelopeE()
BDSBunchComposite
xBunch
yBunch
zBunch
+ BDSBunchComposite()
+ ~BDSBunchComposite()
+ SetOptions()
+ GetNextParticle()
BDSBunchEShell
shellX
shellXp
shellY
shellYp
shellXWidth
shellXpWidth
shellYWidth
shellYpWidth
FlatGen
+ BDSBunchEShell()
+ BDSBunchEShell()
+ ~BDSBunchEShell()
+ SetOptions()
+ GetNextParticle()
+ GetShellX()
+ GetShellXp()
+ GetShellY()
+ GetShellYp()
+ GetShellXWidth()
+ GetShellXpWidth()
+ GetShellYWidth()
+ GetShellYpWidth()
# SetShellX()
# SetShellXp()
# SetShellY()
# SetShellYp()
# SetShellXWidth()
# SetShellXpWidth()
# SetShellYWidth()
# SetShellYpWidth()
BDSBunchGaussian
sigmaX
sigmaY
sigmaXp
sigmaYp
meansGM
sigmaGM
GaussMultiGen
+ BDSBunchGaussian()
+ BDSBunchGaussian()
+ BDSBunchGaussian()
+ ~BDSBunchGaussian()
+ SetOptions()
+ GetNextParticle()
+ GetSigmaX()
+ GetSigmaY()
+ GetSigmaXp()
+ GetSigmaYp()
+ GetSigma()
# SetSigmaX()
# SetSigmaY()
# SetSigmaXp()
# SetSigmaYp()
# SetSigma()
BDSBunchGP
- BDSBunchGP()
- ~BDSBunchGP()
BDSBunchHalo
- betaX
- betaY
- alphaX
- alphaY
- emitX
- emitY
- gammaX
- gammaY
- envelopeX
- envelopeY
- envelopeXp
- envelopeYp
- FlatGen
- weightParameter
- weightFunction
+ BDSBunchHalo()
+ BDSBunchHalo()
+ ~BDSBunchHalo()
+ SetOptions()
+ GetNextParticle()
+ GetBetaX()
+ GetBetaY()
+ GetAlphaX()
+ GetAlphaY()
+ GetEmitX()
+ GetEmitY()
+ GetEnvelopeX()
+ GetEnvelopeY()
+ GetEnvelopeXp()
+ GetEnvelopeYp()
+ GetWeightParamer()
+ GetWeightFunction()
# SetBetaX()
# SetBetaY()
# SetAlphaX()
# SetAlphaY()
# SetEmitX()
# SetEmitY()
# SetEnvelopeX()
# SetEnvelopeY()
# SetEnvelopeXp()
# SetEnvelopeYp()
# SetWeightParameter()
# SetWeightFunction()
BDSBunchPtc
- nRays
- fileName
- iRay
- ptcData
+ BDSBunchPtc()
+ ~BDSBunchPtc()
+ SetOptions()
+ GetNextParticle()
- LoadPtcFile()
- SetDistribFile()
BDSBunchRing
rMin
rMax
FlatGen
+ BDSBunchRing()
+ BDSBunchRing()
+ ~BDSBunchRing()
+ SetOptions()
+ GetNextParticle()
+ GetRMin()
+ GetRMax()
# SetRMin()
# SetRMax()
BDSBunchSquare
envelopeX
envelopeY
envelopeXp
envelopeYp
envelopeT
envelopeE
FlatGen
+ BDSBunchSquare()
+ BDSBunchSquare()
+ ~BDSBunchSquare()
+ SetOptions()
+ GetNextParticle()
+ GetEnvelopeX()
+ GetEnvelopeY()
+ GetEnvelopeXp()
+ GetEnvelopeYp()
+ GetEnvelopeT()
+ GetEnvelopeE()
# SetEnvelopeX()
# SetEnvelopeY()
# SetEnvelopeXp()
# SetEnvelopeYp()
# SetEnvelopeT()
# SetEnvelopeE()
BDSBunchTwiss
- betaX
- betaY
- alphaX
- alphaY
- emitX
- emitY
- gammaX
- gammaY
- GaussMultiGen
- meansGM
- sigmaGM
+ BDSBunchTwiss()
+ BDSBunchTwiss()
+ ~BDSBunchTwiss()
+ SetOptions()
+ CommonConstruction()
+ GetNextParticle()
+ GetBetaX()
+ GetBetaY()
+ GetAlphaX()
+ GetAlphaY()
+ GetEmitX()
+ GetEmitY()
- SetBetaX()
- SetBetaY()
- SetAlphaX()
- SetAlphaY()
- SetEmitX()
- SetEmitY()
BDSBunchUserFile
distribFile
bunchFormat
nlinesIgnore
- InputBunchFile
- fields
+ BDSBunchUserFile()
+ ~BDSBunchUserFile()
+ SetOptions()
+ GetNextParticle()
- ParseFileFormat()
- OpenBunchFile()
- CloseBunchFile()
- skip()
- ReadValue()
- SetDistribFile()
- SetBunchFormat()
- SetNLinesIgnore()
- ParseEnergyUnit()
- ParseLengthUnit()
- ParseAngleUnit()
- ParseTimeUnit()