

tesseract_planning
::TrajOptPlanProfile

```
std::vector< std::tuple  
< sco::VectorOfVector  
::func, sco::MatrixOfVector  
::func, sco::ConstraintType,  
Eigen::VectorXd > >
```

VectorXd

constraint_error_functions
cartesian_coeff
joint_coeff

tesseract_planning
::TrajOptDefaultPlanProfile

```
graph LR; A[tesseract_planning::TrajOptDefaultPlanProfile] -- solid blue arrow --> B[tesseract_planning::TrajOptPlanProfile]; A -.-> C[std::vector< std::tuple< sco::VectorOfVector::func, sco::MatrixOfVector::func, sco::ConstraintType, Eigen::VectorXd >>]; A -.-> D[VectorXd];
```

The diagram illustrates the relationships between different planning profiles and their associated data structures. A central grey box, 'tesseract_planning::TrajOptDefaultPlanProfile', is connected to three other boxes. A solid blue arrow points from the central box to the top box, 'tesseract_planning::TrajOptPlanProfile'. Two dashed purple arrows point from the central box to the middle and bottom boxes. The middle box contains a C++ vector of tuples, and the bottom box contains 'VectorXd'. The dashed arrow to the middle box is labeled with 'constraint_error_functions', 'cartesian_coeff', and 'joint_coeff'.