

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', has a solid blue arrow pointing to 'tesseract\_planning::TrajOptPlanProfile' and two dashed purple arrows pointing to 'std::vector< std::tuple< sco::VectorOfVector::func, sco::MatrixOfVector::func, sco::ConstraintType, Eigen::VectorXd >>' and 'VectorXd'. The dashed purple arrows are labeled with 'constraint\_error\_functions', 'cartesian\_coeff', and 'joint\_coeff'.