

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 solid blue arrow points from the `tesseract_planning::TrajOptDefaultPlanProfile` box to the `tesseract_planning::TrajOptPlanProfile` box. Two dashed purple arrows originate from the `tesseract_planning::TrajOptDefaultPlanProfile` box: one points to a box containing a C++ vector of tuples, and the other points to a box containing `VectorXd`. The labels `constraint_error_functions`, `cartesian_coeff`, and `joint_coeff` are positioned between the dashed arrows, indicating the specific data being passed.