UDACITY

PROJECT

Extended Kalman Filters

A part of the Self Driving Car Engineer Nanodegree Program

PROJECT REVIEW

CODE REVIEW 9

NOTES

using_cmake/src/FusionEKF.cpp 4

```
#include "FusionEKF.h"
#include "tools.h"
#include "Eigen/Dense"
#include <iostream>

using namespace std;
using Eigen::MatrixXd;
using Eigen::VectorXd;
using std::vector;

/*
 * Constructor.
 */
FusionEKF::FusionEKF() {
  is_initialized_ = false;

  previous_timestamp_ = 0;

  // initializing matrices
  R_laser_ = MatrixXd(2, 2);
  R_radar_ = MatrixXd(3, 3);
  H_laser_ = MatrixXd(2, 4);
  Hj_ = MatrixXd(3, 4);
  //add
  ekf_.P_ = MatrixXd(4, 4);
  ekf_.F_ = MatrixXd(4, 4);
  ekf_.Q_ = MatrixXd(4, 4);
  //add


  //measurement covariance matrix - laser
  R_laser_ << 0.0225, 0,
        0, 0.0225;

  //measurement covariance matrix - radar
  R_radar_ << 0.09, 0, 0,
        0, 0.0009, 0,
        0, 0, 0.09;

  /**
  TODO:
    * Finish initializing the FusionEKF.
    * Set the process and measurement noises
  */
    //measurement matrix - laser
  H_laser_ << 1, 0, 0, 0,
              0, 1, 0, 0;

  //jacobian matrix - radar
  Hj_ << 1, 0, 0, 0,
         0, 1, 0, 0,
         0, 0, 1, 0;

  // state covariance matrix P
  ekf_.P_ << 1, 0, 0, 0,
             0, 1, 0, 0,
             0, 0, 1000, 0,
             0, 0, 0, 1000;
```

AWESOME

Good job!

```

  // state transition matrix F

  ekf_.F_ << 1, 0, 1, 0,
             0, 1, 0, 1,
             0, 0, 1, 0,
             0, 0, 0, 1;

  //  process noise covariance matrix Q
  ekf_.Q_ << 0, 0, 0, 0,
             0, 0, 0, 0,
             0, 0, 0, 0,
             0, 0, 0, 0;

  // Initialize ekf state
  ekf_.x_ = VectorXd(4);
  ekf_.x_ << 1, 1, 1, 1;

  noise_ax = 5;
  noise_ay = 5;
```

REQUIRED

Changes Required

Revert this back to 9!

```

}

/**
* Destructor.
*/
FusionEKF::~FusionEKF() {}

void FusionEKF::ProcessMeasurement(const MeasurementPackage &measurement_pack) {


  /*****************************************************************************
   *  Initialization
   ****************************************************************************/
  if (!is_initialized_) {
    /**
    TODO:
      * Initialize the state ekf_.x_ with the first measurement.
      * Create the covariance matrix.
      * Remember: you'll need to convert radar from polar to cartesian coordinates.
    */
    // first measurement
    cout << "EKF: " << endl;
    ekf_.x_ = VectorXd(4);
    ekf_.x_ << 1, 1, 1, 1;

    if (measurement_pack.sensor_type_ == MeasurementPackage::RADAR) {
      /**
      Convert radar from polar to cartesian coordinates and initialize state.
      */
        float rho = measurement_pack.raw_measurements_(0);
        float phi = measurement_pack.raw_measurements_(1);
        float dot_rho = measurement_pack.raw_measurements_(2);

        float px = rho * cos(phi);
        float py = rho * sin(phi);
        float vx = dot_rho * cos(phi);
        float vy = dot_rho * sin(phi);
```

SUGGESTION

This is something that a lot of students get it wrong. phi is the direction of the object relative to our car. It's not the direction in which the object is heading (i.e. headin
(which is introduced in UKF) to compute vx and vy. So even from radar measurement, we can only compute px and py. Hope that made sense. This discussion explain

```

        ekf_.x_ << px, py, vx, vy;
    }
    else if (measurement_pack.sensor_type_ == MeasurementPackage::LASER) {
      /**
      Initialize state.
      */
        float px = measurement_pack.raw_measurements_(0);
        float py = measurement_pack.raw_measurements_(1);
        float vx = 0, vy = 0;
        // Initialize state
        ekf_.x_ << px, py, vx, vy;
    }

    // done initializing, no need to predict or update
    is_initialized_ = true;
    return;
  }

  /*****************************************************************************
```

```
   *  Prediction
   ****************************************************************************/

  /**
   TODO:
     * Update the state transition matrix F according to the new elapsed time.
      - Time is measured in seconds.
     * Update the process noise covariance matrix.
     * Use noise_ax = 9 and noise_ay = 9 for your Q matrix.
   */
  float dt = (measurement_pack.timestamp_ - previous_timestamp_) / 1000000.0; // dt - expressed in seconds
  previous_timestamp_ = measurement_pack.timestamp_;

  float dt_2 = dt * dt;
  float dt_3 = dt_2 * dt;
  float dt_4 = dt_3 * dt;

  //Modify the F matrix so that the time is integrated
  ekf_.F_(0, 2) = dt;
  ekf_.F_(1, 3) = dt;

  //set the process covariance matrix Q
  ekf_.Q_ << dt_4 / 4 * noise_ax, 0, dt_3 / 2 * noise_ax, 0,
      0, dt_4 / 4 * noise_ay, 0, dt_3 / 2 * noise_ay,
      dt_3 / 2 * noise_ax, 0, dt_2*noise_ax, 0,
      0, dt_3 / 2 * noise_ay, 0, dt_2*noise_ay;

  // todo end


  ekf_.Predict();
```

SUGGESTION

If dt is 0 (simultaneous measurements), you need not and should not predict again. So it's better to check if dt is above a certain threshold before predicting. Note tha

```

  /*****************************************************************************
   *  Update
   ****************************************************************************/

  /**
   TODO:
     * Use the sensor type to perform the update step.
     * Update the state and covariance matrices.
   */

  if (measurement_pack.sensor_type_ == MeasurementPackage::RADAR) {
    // Radar updates
    ekf_.H_ = tools.CalculateJacobian(ekf_.x_);
    ekf_.R_ = R_radar_;
    ekf_.UpdateEKF(measurement_pack.raw_measurements_);
  } else {
    // Laser updates
    ekf_.H_ = H_laser_;
    ekf_.R_ = R_laser_;
    ekf_.Update(measurement_pack.raw_measurements_);
  }

  // print the output
  cout << "x_ = " << ekf_.x_ << endl;
  cout << "P_ = " << ekf_.P_ << endl;
}

```

- **using_cmake/src/kalman_filter.cpp** 3
- **using_cmake/src/tools.cpp** 2
- **using_eclips_oxygen/src/Eigen/src/plugins/BlockMethods.h**
- **using_eclips_oxygen/src/Eigen/src/plugins/ArrayCwiseUnaryOps.h**
- **using_eclips_oxygen/src/Eigen/src/plugins/ArrayCwiseBinaryOps.h**
- **using_eclips_oxygen/src/Eigen/src/misc/blas.h**
- **using_eclips_oxygen/src/Eigen/src/misc/SparseSolve.h**
- **using_eclips_oxygen/src/Eigen/src/misc/Solve.h**
- **using_eclips_oxygen/src/Eigen/src/misc/Kernel.h**

- using_eclips_oxygen/src/Eigen/src/misc/Image.h
- using_eclips_oxygen/src/Eigen/src/misc/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/src/UmfPackSupport/UmfPackSupport.h
- using_eclips_oxygen/src/Eigen/src/UmfPackSupport/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/src/SuperLUSupport/SuperLUSupport.h
- using_eclips_oxygen/src/Eigen/src/SuperLUSupport/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/src/StlSupport/details.h
- using_eclips_oxygen/src/Eigen/src/StlSupport/StdVector.h
- using_eclips_oxygen/src/Eigen/src/StlSupport/StdList.h
- using_eclips_oxygen/src/Eigen/src/StlSupport/StdDeque.h
- using_eclips_oxygen/src/Eigen/src/StlSupport/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/src/SparseQR/SparseQR.h
- using_eclips_oxygen/src/Eigen/src/SparseQR/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/src/SparseLU/SparseLU_relax_snode.h
- using_eclips_oxygen/src/Eigen/src/SparseLU/SparseLU_pruneL.h
- using_eclips_oxygen/src/Eigen/src/SparseLU/SparseLU_pivotL.h
- using_eclips_oxygen/src/Eigen/src/SparseLU/SparseLU_panel_dfs.h
- using_eclips_oxygen/src/Eigen/src/SparseLU/SparseLU_panel_bmod.h
- using_eclips_oxygen/src/Eigen/src/SparseLU/SparseLU_kernel_bmod.h
- using_eclips_oxygen/src/Eigen/src/SparseLU/SparseLU_heap_relax_snode.h
- using_eclips_oxygen/src/Eigen/src/SparseLU/SparseLU_gemm_kernel.h
- using_eclips_oxygen/src/Eigen/src/SparseLU/SparseLU_copy_to_ucol.h
- using_eclips_oxygen/src/Eigen/src/SparseLU/SparseLU_column_dfs.h
- using_eclips_oxygen/src/Eigen/src/SparseLU/SparseLU_column_bmod.h
- using_eclips_oxygen/src/Eigen/src/SparseLU/SparseLU_Utils.h
- using_eclips_oxygen/src/Eigen/src/SparseLU/SparseLU_SupernodalMatrix.h
- using_eclips_oxygen/src/Eigen/src/SparseLU/SparseLU_Structs.h
- using_eclips_oxygen/src/Eigen/src/SparseLU/SparseLU_Memory.h
- using_eclips_oxygen/src/Eigen/src/SparseLU/SparseLUImpl.h
- using_eclips_oxygen/src/Eigen/src/SparseLU/SparseLU.h
- using_eclips_oxygen/src/Eigen/src/SparseLU/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/src/SparseCore/TriangularSolver.h

- using_eclips_oxygen/src/Eigen/src/SparseCore/SparseView.h
- using_eclips_oxygen/src/Eigen/src/SparseCore/SparseVector.h
- using_eclips_oxygen/src/Eigen/src/SparseCore/SparseUtil.h
- using_eclips_oxygen/src/Eigen/src/SparseCore/SparseTriangularView.h
- using_eclips_oxygen/src/Eigen/src/SparseCore/SparseTranspose.h
- using_eclips_oxygen/src/Eigen/src/SparseCore/SparseSparseProductWithPruning.h
- using_eclips_oxygen/src/Eigen/src/SparseCore/SparseSelfAdjointView.h
- using_eclips_oxygen/src/Eigen/src/SparseCore/SparseRedux.h
- using_eclips_oxygen/src/Eigen/src/SparseCore/SparseProduct.h
- using_eclips_oxygen/src/Eigen/src/SparseCore/SparsePermutation.h
- using_eclips_oxygen/src/Eigen/src/SparseCore/SparseMatrixBase.h
- using_eclips_oxygen/src/Eigen/src/SparseCore/SparseMatrix.h
- using_eclips_oxygen/src/Eigen/src/SparseCore/SparseFuzzy.h
- using_eclips_oxygen/src/Eigen/src/SparseCore/SparseDot.h
- using_eclips_oxygen/src/Eigen/src/SparseCore/SparseDiagonalProduct.h
- using_eclips_oxygen/src/Eigen/src/SparseCore/SparseDenseProduct.h
- using_eclips_oxygen/src/Eigen/src/SparseCore/SparseCwiseUnaryOp.h
- using_eclips_oxygen/src/Eigen/src/SparseCore/SparseCwiseBinaryOp.h
- using_eclips_oxygen/src/Eigen/src/SparseCore/SparseColEtree.h
- using_eclips_oxygen/src/Eigen/src/SparseCore/SparseBlock.h
- using_eclips_oxygen/src/Eigen/src/SparseCore/MappedSparseMatrix.h
- using_eclips_oxygen/src/Eigen/src/SparseCore/ConservativeSparseSparseProduct.h
- using_eclips_oxygen/src/Eigen/src/SparseCore/CompressedStorage.h
- using_eclips_oxygen/src/Eigen/src/SparseCore/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/src/SparseCore/AmbiVector.h
- using_eclips_oxygen/src/Eigen/src/SparseCholesky/SimplicialCholesky_impl.h
- using_eclips_oxygen/src/Eigen/src/SparseCholesky/SimplicialCholesky.h
- using_eclips_oxygen/src/Eigen/src/SparseCholesky/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/src/SVD/UpperBidiagonalization.h
- using_eclips_oxygen/src/Eigen/src/SVD/JacobiSVD_MKL.h
- using_eclips_oxygen/src/Eigen/src/SVD/JacobiSVD.h
- using_eclips_oxygen/src/Eigen/src/SVD/CMakeLists.txt

- using_eclips_oxygen/src/Eigen/src/SPQRSupport/SuiteSparseQRSupport.h
- using_eclips_oxygen/src/Eigen/src/SPQRSupport/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/src/QR/HouseholderQR_MKL.h
- using_eclips_oxygen/src/Eigen/src/QR/HouseholderQR.h
- using_eclips_oxygen/src/Eigen/src/QR/FullPivHouseholderQR.h
- using_eclips_oxygen/src/Eigen/src/QR/ColPivHouseholderQR_MKL.h
- using_eclips_oxygen/src/Eigen/src/QR/ColPivHouseholderQR.h
- using_eclips_oxygen/src/Eigen/src/QR/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/src/PardisoSupport/PardisoSupport.h
- using_eclips_oxygen/src/Eigen/src/PardisoSupport/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/src/PaStiXSupport/PaStiXSupport.h
- using_eclips_oxygen/src/Eigen/src/PaStiXSupport/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/src/OrderingMethods/Ordering.h
- using_eclips_oxygen/src/Eigen/src/OrderingMethods/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/src/OrderingMethods/Amd.h
- using_eclips_oxygen/src/Eigen/src/MetisSupport/MetisSupport.h
- using_eclips_oxygen/src/Eigen/src/MetisSupport/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/src/LU/arch/Inverse_SSE.h
- using_eclips_oxygen/src/Eigen/src/LU/arch/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/src/LU/PartialPivLU_MKL.h
- using_eclips_oxygen/src/Eigen/src/LU/PartialPivLU.h
- using_eclips_oxygen/src/Eigen/src/LU/Inverse.h
- using_eclips_oxygen/src/Eigen/src/LU/FullPivLU.h
- using_eclips_oxygen/src/Eigen/src/LU/Determinant.h
- using_eclips_oxygen/src/Eigen/src/LU/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/src/Jacobi/Jacobi.h
- using_eclips_oxygen/src/Eigen/src/Jacobi/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/src/IterativeLinearSolvers/IterativeSolverBase.h
- using_eclips_oxygen/src/Eigen/src/IterativeLinearSolvers/IncompleteLUT.h
- using_eclips_oxygen/src/Eigen/src/IterativeLinearSolvers/ConjugateGradient.h
- using_eclips_oxygen/src/Eigen/src/IterativeLinearSolvers/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/src/IterativeLinearSolvers/BiCGSTAB.h

- using_eclips_oxygen/src/Eigen/src/IterativeLinearSolvers/BasicPreconditioners.h
- using_eclips_oxygen/src/Eigen/src/Householder/HouseholderSequence.h
- using_eclips_oxygen/src/Eigen/src/Householder/Householder.h
- using_eclips_oxygen/src/Eigen/src/Householder/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/src/Householder/BlockHouseholder.h
- using_eclips_oxygen/src/Eigen/src/Geometry/arch/Geometry_SSE.h
- using_eclips_oxygen/src/Eigen/src/Geometry/arch/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/src/Geometry/Umeyama.h
- using_eclips_oxygen/src/Eigen/src/Geometry/Translation.h
- using_eclips_oxygen/src/Eigen/src/Geometry/Transform.h
- using_eclips_oxygen/src/Eigen/src/Geometry/Scaling.h
- using_eclips_oxygen/src/Eigen/src/Geometry/RotationBase.h
- using_eclips_oxygen/src/Eigen/src/Geometry/Rotation2D.h
- using_eclips_oxygen/src/Eigen/src/Geometry/Quaternion.h
- using_eclips_oxygen/src/Eigen/src/Geometry/ParametrizedLine.h
- using_eclips_oxygen/src/Eigen/src/Geometry/OrthoMethods.h
- using_eclips_oxygen/src/Eigen/src/Geometry/Hyperplane.h
- using_eclips_oxygen/src/Eigen/src/Geometry/Homogeneous.h
- using_eclips_oxygen/src/Eigen/src/Geometry/EulerAngles.h
- using_eclips_oxygen/src/Eigen/src/Geometry/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/src/Geometry/AngleAxis.h
- using_eclips_oxygen/src/Eigen/src/Geometry/AlignedBox.h
- using_eclips_oxygen/src/Eigen/src/Eigenvalues/Tridiagonalization.h
- using_eclips_oxygen/src/Eigen/src/Eigenvalues/RealSchur_MKL.h
- using_eclips_oxygen/src/Eigen/src/Eigenvalues/RealSchur.h
- using_eclips_oxygen/src/Eigen/src/Eigenvalues/RealQZ.h
- using_eclips_oxygen/src/Eigen/src/Eigenvalues/HessenbergDecomposition.h
- using_eclips_oxygen/src/Eigen/src/Eigenvalues/ComplexSchur_MKL.h
- using_eclips_oxygen/src/Eigen/src/Eigenvalues/ComplexSchur.h
- using_eclips_oxygen/src/Eigen/src/Eigenvalues/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/src/Eigen2Support/VectorBlock.h
- using_eclips_oxygen/src/Eigen/src/Eigen2Support/TriangularSolver.h

- using_eclips_oxygen/src/Eigen/src/Eigen2Support/SVD.h
- using_eclips_oxygen/src/Eigen/src/Eigen2Support/QR.h
- using_eclips_oxygen/src/Eigen/src/Eigen2Support/Minor.h
- using_eclips_oxygen/src/Eigen/src/Eigen2Support/Meta.h
- using_eclips_oxygen/src/Eigen/src/Eigen2Support/Memory.h
- using_eclips_oxygen/src/Eigen/src/Eigen2Support/MathFunctions.h
- using_eclips_oxygen/src/Eigen/src/Eigen2Support/Macros.h
- using_eclips_oxygen/src/Eigen/src/Eigen2Support/LeastSquares.h
- using_eclips_oxygen/src/Eigen/src/Eigen2Support/Lazy.h
- using_eclips_oxygen/src/Eigen/src/Eigen2Support/LU.h
- using_eclips_oxygen/src/Eigen/src/Eigen2Support/Geometry/Translation.h
- using_eclips_oxygen/src/Eigen/src/Eigen2Support/Geometry/Transform.h
- using_eclips_oxygen/src/Eigen/src/Eigen2Support/Geometry/Scaling.h
- using_eclips_oxygen/src/Eigen/src/Eigen2Support/Geometry/RotationBase.h
- using_eclips_oxygen/src/Eigen/src/Eigen2Support/Geometry/Rotation2D.h
- using_eclips_oxygen/src/Eigen/src/Eigen2Support/Geometry/Quaternion.h
- using_eclips_oxygen/src/Eigen/src/Eigen2Support/Geometry/ParametrizedLine.h
- using_eclips_oxygen/src/Eigen/src/Eigen2Support/Geometry/Hyperplane.h
- using_eclips_oxygen/src/Eigen/src/Eigen2Support/Geometry/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/src/Eigen2Support/Geometry/AngleAxis.h
- using_eclips_oxygen/src/Eigen/src/Eigen2Support/Geometry/All.h
- using_eclips_oxygen/src/Eigen/src/Eigen2Support/Geometry/AlignedBox.h
- using_eclips_oxygen/src/Eigen/src/Eigen2Support/CwiseOperators.h
- using_eclips_oxygen/src/Eigen/src/Eigen2Support/Cwise.h
- using_eclips_oxygen/src/Eigen/src/Eigen2Support/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/src/Eigen2Support/Block.h
- using_eclips_oxygen/src/Eigen/src/Core/util/XprHelper.h
- using_eclips_oxygen/src/Eigen/src/Core/util/StaticAssert.h
- using_eclips_oxygen/src/Eigen/src/Core/util/ReenableStupidWarnings.h
- using_eclips_oxygen/src/Eigen/src/Core/util/NonMPL2.h
- using_eclips_oxygen/src/Eigen/src/Core/util/Meta.h
- using_eclips_oxygen/src/Eigen/src/Core/util/Memory.h

- using_eclips_oxygen/src/Eigen/src/Core/util/Macros.h
- using_eclips_oxygen/src/Eigen/src/Core/util/MKL_support.h
- using_eclips_oxygen/src/Eigen/src/Core/util/ForwardDeclarations.h
- using_eclips_oxygen/src/Eigen/src/Core/util/DisableStupidWarnings.h
- using_eclips_oxygen/src/Eigen/src/Core/util/Constants.h
- using_eclips_oxygen/src/Eigen/src/Core/util/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/src/Core/util/BlasUtil.h
- using_eclips_oxygen/src/Eigen/src/Core/products/TriangularSolverVector.h
- using_eclips_oxygen/src/Eigen/src/Core/products/TriangularSolverMatrix_MKL.h
- using_eclips_oxygen/src/Eigen/src/Core/products/TriangularSolverMatrix.h
- using_eclips_oxygen/src/Eigen/src/Core/products/TriangularMatrixVector_MKL.h
- using_eclips_oxygen/src/Eigen/src/Core/products/TriangularMatrixVector.h
- using_eclips_oxygen/src/Eigen/src/Core/products/TriangularMatrixMatrix_MKL.h
- using_eclips_oxygen/src/Eigen/src/Core/products/TriangularMatrixMatrix.h
- using_eclips_oxygen/src/Eigen/src/Core/products/SelfadjointRank2Update.h
- using_eclips_oxygen/src/Eigen/src/Core/products/SelfadjointProduct.h
- using_eclips_oxygen/src/Eigen/src/Core/products/SelfadjointMatrixVector_MKL.h
- using_eclips_oxygen/src/Eigen/src/Core/products/SelfadjointMatrixVector.h
- using_eclips_oxygen/src/Eigen/src/Core/products/SelfadjointMatrixMatrix_MKL.h
- using_eclips_oxygen/src/Eigen/src/Core/products/SelfadjointMatrixMatrix.h
- using_eclips_oxygen/src/Eigen/src/Core/products/Parallelizer.h
- using_eclips_oxygen/src/Eigen/src/Core/products/GeneralMatrixVector_MKL.h
- using_eclips_oxygen/src/Eigen/src/Core/products/GeneralMatrixVector.h
- using_eclips_oxygen/src/Eigen/src/Core/products/GeneralMatrixMatrix_MKL.h
- using_eclips_oxygen/src/Eigen/src/Core/products/GeneralMatrixMatrixTriangular_MKL.h
- using_eclips_oxygen/src/Eigen/src/Core/products/GeneralMatrixMatrixTriangular.h
- using_eclips_oxygen/src/Eigen/src/Core/products/GeneralMatrixMatrix.h
- using_eclips_oxygen/src/Eigen/src/Core/products/GeneralBlockPanelKernel.h
- using_eclips_oxygen/src/Eigen/src/Core/products/CoeffBasedProduct.h
- using_eclips_oxygen/src/Eigen/src/Core/products/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/src/Core/arch/SSE/PacketMath.h
- using_eclips_oxygen/src/Eigen/src/Core/arch/SSE/MathFunctions.h

- using_eclips_oxygen/src/Eigen/src/Core/arch/SSE/Complex.h
- using_eclips_oxygen/src/Eigen/src/Core/arch/SSE/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/src/Core/arch/NEON/PacketMath.h
- using_eclips_oxygen/src/Eigen/src/Core/arch/NEON/Complex.h
- using_eclips_oxygen/src/Eigen/src/Core/arch/NEON/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/src/Core/arch/Default/Settings.h
- using_eclips_oxygen/src/Eigen/src/Core/arch/Default/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/src/Core/arch/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/src/Core/arch/AltiVec/PacketMath.h
- using_eclips_oxygen/src/Eigen/src/Core/Stride.h
- using_eclips_oxygen/src/Eigen/src/Core/StableNorm.h
- using_eclips_oxygen/src/Eigen/src/Core/SolveTriangular.h
- using_eclips_oxygen/src/Eigen/src/Core/SelfCwiseBinaryOp.h
- using_eclips_oxygen/src/Eigen/src/Core/SelfAdjointView.h
- using_eclips_oxygen/src/Eigen/src/Core/Select.h
- using_eclips_oxygen/src/Eigen/src/Core/Reverse.h
- using_eclips_oxygen/src/Eigen/src/Core/ReturnByValue.h
- using_eclips_oxygen/src/Eigen/src/Core/Replicate.h
- using_eclips_oxygen/src/Eigen/src/Core/Ref.h
- using_eclips_oxygen/src/Eigen/src/Core/Redux.h
- using_eclips_oxygen/src/Eigen/src/Core/Random.h
- using_eclips_oxygen/src/Eigen/src/Core/ProductBase.h
- using_eclips_oxygen/src/Eigen/src/Core/PlainObjectBase.h
- using_eclips_oxygen/src/Eigen/src/Core/PermutationMatrix.h
- using_eclips_oxygen/src/Eigen/src/Core/NumTraits.h
- using_eclips_oxygen/src/Eigen/src/Core/NoAlias.h
- using_eclips_oxygen/src/Eigen/src/Core/NestByValue.h
- using_eclips_oxygen/src/Eigen/src/Core/MatrixBase.h
- using_eclips_oxygen/src/Eigen/src/Core/Matrix.h
- using_eclips_oxygen/src/Eigen/src/Core/MathFunctions.h
- using_eclips_oxygen/src/Eigen/src/Core/MapBase.h
- using_eclips_oxygen/src/Eigen/src/Core/Map.h

- using_eclips_oxygen/src/Eigen/src/Core/IO.h
- using_eclips_oxygen/src/Eigen/src/Core/GlobalFunctions.h
- using_eclips_oxygen/src/Eigen/src/Core/GenericPacketMath.h
- using_eclips_oxygen/src/Eigen/src/Core/GeneralProduct.h
- using_eclips_oxygen/src/Eigen/src/Core/Fuzzy.h
- using_eclips_oxygen/src/Eigen/src/Core/Functors.h
- using_eclips_oxygen/src/Eigen/src/Core/ForceAlignedAccess.h
- using_eclips_oxygen/src/Eigen/src/Core/Flagged.h
- using_eclips_oxygen/src/Eigen/src/Core/Dot.h
- using_eclips_oxygen/src/Eigen/src/Core/DiagonalProduct.h
- using_eclips_oxygen/src/Eigen/src/Core/DiagonalMatrix.h
- using_eclips_oxygen/src/Eigen/src/Core/Diagonal.h
- using_eclips_oxygen/src/Eigen/src/Core/DenseStorage.h
- using_eclips_oxygen/src/Eigen/src/Core/DenseCoeffsBase.h
- using_eclips_oxygen/src/Eigen/src/Core/DenseBase.h
- using_eclips_oxygen/src/Eigen/src/Core/CwiseUnaryView.h
- using_eclips_oxygen/src/Eigen/src/Core/CwiseUnaryOp.h
- using_eclips_oxygen/src/Eigen/src/Core/CwiseNullaryOp.h
- using_eclips_oxygen/src/Eigen/src/Core/CwiseBinaryOp.h
- using_eclips_oxygen/src/Eigen/src/Core/CoreIterators.h
- using_eclips_oxygen/src/Eigen/src/Core/CommaInitializer.h
- using_eclips_oxygen/src/Eigen/src/Core/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/src/Core/BooleanRedux.h
- using_eclips_oxygen/src/Eigen/src/Core/Block.h
- using_eclips_oxygen/src/Eigen/src/Core/BandMatrix.h
- using_eclips_oxygen/src/Eigen/src/Core/Assign_MKL.h
- using_eclips_oxygen/src/Eigen/src/Core/Assign.h
- using_eclips_oxygen/src/Eigen/src/Core/ArrayWrapper.h
- using_eclips_oxygen/src/Eigen/src/Core/ArrayBase.h
- using_eclips_oxygen/src/Eigen/src/Core/Array.h
- using_eclips_oxygen/src/Eigen/src/CholmodSupport/CholmodSupport.h
- using_eclips_oxygen/src/Eigen/src/CholmodSupport/CMakeLists.txt

- using_eclips_oxygen/src/Eigen/src/Cholesky/LLT_MKL.h
- using_eclips_oxygen/src/Eigen/src/Cholesky/LLT.h
- using_eclips_oxygen/src/Eigen/src/Cholesky/LDLT.h
- using_eclips_oxygen/src/Eigen/src/Cholesky/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/src/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/UmfPackSupport
- using_eclips_oxygen/src/Eigen/SuperLUSupport
- using_eclips_oxygen/src/Eigen/StdVector
- using_eclips_oxygen/src/Eigen/StdList
- using_eclips_oxygen/src/Eigen/StdDeque
- using_eclips_oxygen/src/Eigen/SparseQR
- using_eclips_oxygen/src/Eigen/SparseLU
- using_eclips_oxygen/src/Eigen/SparseCore
- using_eclips_oxygen/src/Eigen/SparseCholesky
- using_eclips_oxygen/src/Eigen/Sparse
- using_eclips_oxygen/src/Eigen/SVD
- using_eclips_oxygen/src/Eigen/SPQRSupport
- using_eclips_oxygen/src/Eigen/QtAlignedMalloc
- using_eclips_oxygen/src/Eigen/QR
- using_eclips_oxygen/src/Eigen/PardisoSupport
- using_eclips_oxygen/src/Eigen/PaStiXSupport
- using_eclips_oxygen/src/Eigen/OrderingMethods
- using_eclips_oxygen/src/Eigen/MetisSupport
- using_eclips_oxygen/src/Eigen/LeastSquares
- using_eclips_oxygen/src/Eigen/LU
- using_eclips_oxygen/src/Eigen/Jacobi
- using_eclips_oxygen/src/Eigen/IterativeLinearSolvers
- using_eclips_oxygen/src/Eigen/Householder
- using_eclips_oxygen/src/Eigen/Geometry
- using_eclips_oxygen/src/Eigen/Dense
- using_eclips_oxygen/src/Eigen/Core
- using_eclips_oxygen/src/Eigen/CholmodSupport

- using_eclips_oxygen/src/Eigen/Cholesky
- using_eclips_oxygen/src/Eigen/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/Array
- using_eclips_oxygen/src/CMakeLists.txt
- using_eclips_oxygen/src/.FusionEKF.cpp.swp
- using_eclips_oxygen/install_envs/install-ubuntu.sh
- using_eclips_oxygen/install_envs/install-mac.sh
- using_eclips_oxygen/ide_profiles/xcode/README.md
- using_eclips_oxygen/ide_profiles/README.md
- using_eclips_oxygen/ide_profiles/Eclipse/README.md
- using_eclips_oxygen/data/obj_pose-laser-radar-synthetic-input.txt
- using_eclips_oxygen/cmakepatch.txt
- using_eclips_oxygen/README.md
- using_eclips_oxygen/Docs/Input_Output File Format.txt
- using_cmake/src/tools.h
- using_cmake/src/measurement_package.h
- using_cmake/src/main.cpp
- using_cmake/src/kalman_filter.h
- using_cmake/src/json.hpp
- using_cmake/src/FusionEKF.h
- using_cmake/src/Eigen/src/plugins/MatrixCwiseUnaryOps.h
- using_cmake/src/Eigen/src/plugins/MatrixCwiseBinaryOps.h
- using_cmake/src/Eigen/src/plugins/CommonCwiseUnaryOps.h
- using_cmake/src/Eigen/src/plugins/CommonCwiseBinaryOps.h
- using_cmake/src/Eigen/src/plugins/CMakeLists.txt
- using_cmake/src/Eigen/src/plugins/BlockMethods.h
- using_cmake/src/Eigen/src/plugins/ArrayCwiseUnaryOps.h
- using_cmake/src/Eigen/src/plugins/ArrayCwiseBinaryOps.h
- using_cmake/src/Eigen/src/misc/blas.h
- using_cmake/src/Eigen/src/misc/SparseSolve.h
- using_cmake/src/Eigen/src/misc/Solve.h
- using_cmake/src/Eigen/src/misc/Kernel.h

- using_cmake/src/Eigen/src/misc/Image.h
- using_cmake/src/Eigen/src/misc/CMakeLists.txt
- using_cmake/src/Eigen/src/UmfPackSupport/UmfPackSupport.h
- using_cmake/src/Eigen/src/UmfPackSupport/CMakeLists.txt
- using_cmake/src/Eigen/src/SuperLUSupport/SuperLUSupport.h
- using_cmake/src/Eigen/src/SuperLUSupport/CMakeLists.txt
- using_cmake/src/Eigen/src/StlSupport/details.h
- using_cmake/src/Eigen/src/StlSupport/StdVector.h
- using_cmake/src/Eigen/src/StlSupport/StdList.h
- using_cmake/src/Eigen/src/StlSupport/StdDeque.h
- using_cmake/src/Eigen/src/StlSupport/CMakeLists.txt
- using_cmake/src/Eigen/src/SparseQR/SparseQR.h
- using_cmake/src/Eigen/src/SparseQR/CMakeLists.txt
- using_cmake/src/Eigen/src/SparseLU/SparseLU_relax_snode.h
- using_cmake/src/Eigen/src/SparseLU/SparseLU_pruneL.h
- using_cmake/src/Eigen/src/SparseLU/SparseLU_pivotL.h
- using_cmake/src/Eigen/src/SparseLU/SparseLU_panel_dfs.h
- using_cmake/src/Eigen/src/SparseLU/SparseLU_panel_bmod.h
- using_cmake/src/Eigen/src/SparseLU/SparseLU_kernel_bmod.h
- using_cmake/src/Eigen/src/SparseLU/SparseLU_heap_relax_snode.h
- using_cmake/src/Eigen/src/SparseLU/SparseLU_gemm_kernel.h
- using_cmake/src/Eigen/src/SparseLU/SparseLU_copy_to_ucol.h
- using_cmake/src/Eigen/src/SparseLU/SparseLU_column_dfs.h
- using_cmake/src/Eigen/src/SparseLU/SparseLU_column_bmod.h
- using_cmake/src/Eigen/src/SparseLU/SparseLU_Utils.h
- using_cmake/src/Eigen/src/SparseLU/SparseLU_SupernodalMatrix.h
- using_cmake/src/Eigen/src/SparseLU/SparseLU_Structs.h
- using_cmake/src/Eigen/src/SparseLU/SparseLU_Memory.h
- using_cmake/src/Eigen/src/SparseLU/SparseLUImpl.h
- using_cmake/src/Eigen/src/SparseLU/SparseLU.h
- using_cmake/src/Eigen/src/SparseLU/CMakeLists.txt
- using_cmake/src/Eigen/src/SparseCore/TriangularSolver.h

- using_cmake/src/Eigen/src/SparseCore/SparseView.h
- using_cmake/src/Eigen/src/SparseCore/SparseVector.h
- using_cmake/src/Eigen/src/SparseCore/SparseUtil.h
- using_cmake/src/Eigen/src/SparseCore/SparseTriangularView.h
- using_cmake/src/Eigen/src/SparseCore/SparseTranspose.h
- using_cmake/src/Eigen/src/SparseCore/SparseSparseProductWithPruning.h
- using_cmake/src/Eigen/src/SparseCore/SparseSelfAdjointView.h
- using_cmake/src/Eigen/src/SparseCore/SparseRedux.h
- using_cmake/src/Eigen/src/SparseCore/SparseProduct.h
- using_cmake/src/Eigen/src/SparseCore/SparsePermutation.h
- using_cmake/src/Eigen/src/SparseCore/SparseMatrixBase.h
- using_cmake/src/Eigen/src/SparseCore/SparseMatrix.h
- using_cmake/src/Eigen/src/SparseCore/SparseFuzzy.h
- using_cmake/src/Eigen/src/SparseCore/SparseDot.h
- using_cmake/src/Eigen/src/SparseCore/SparseDiagonalProduct.h
- using_cmake/src/Eigen/src/SparseCore/SparseDenseProduct.h
- writeup_template.md
- using_eclips_oxygen/src/tools.h
- using_eclips_oxygen/src/tools.cpp
- using_eclips_oxygen/src/measurement_package.h
- using_eclips_oxygen/src/main.cpp
- using_eclips_oxygen/src/kalman_filter.h
- using_eclips_oxygen/src/kalman_filter.cpp
- using_eclips_oxygen/src/json.hpp
- using_eclips_oxygen/src/FusionEKF.h
- using_eclips_oxygen/src/FusionEKF.cpp
- using_eclips_oxygen/src/Eigen/src/plugins/MatrixCwiseUnaryOps.h
- using_eclips_oxygen/src/Eigen/src/plugins/MatrixCwiseBinaryOps.h
- using_eclips_oxygen/src/Eigen/src/plugins/CommonCwiseUnaryOps.h
- using_eclips_oxygen/src/Eigen/src/plugins/CommonCwiseBinaryOps.h
- using_eclips_oxygen/src/Eigen/src/plugins/CMakeLists.txt
- using_cmake/src/Eigen/src/SparseCore/SparseCwiseUnaryOp.h

- using_cmake/src/Eigen/src/SparseCore/SparseCwiseBinaryOp.h
- using_cmake/src/Eigen/src/SparseCore/SparseColEtree.h
- using_cmake/src/Eigen/src/SparseCore/SparseBlock.h
- using_cmake/src/Eigen/src/SparseCore/MappedSparseMatrix.h
- using_cmake/src/Eigen/src/SparseCore/ConservativeSparseSparseProduct.h
- using_cmake/src/Eigen/src/SparseCore/CompressedStorage.h
- using_cmake/src/Eigen/src/SparseCore/CMakeLists.txt
- using_cmake/src/Eigen/src/SparseCore/AmbiVector.h
- using_cmake/src/Eigen/src/SparseCholesky/SimplicialCholesky_impl.h
- using_cmake/src/Eigen/src/SparseCholesky/SimplicialCholesky.h
- using_cmake/src/Eigen/src/SparseCholesky/CMakeLists.txt
- using_cmake/src/Eigen/src/SVD/UpperBidiagonalization.h
- using_cmake/src/Eigen/src/SVD/JacobiSVD_MKL.h
- using_cmake/src/Eigen/src/SVD/JacobiSVD.h
- using_cmake/src/Eigen/src/SVD/CMakeLists.txt
- using_cmake/src/Eigen/src/SPQRSupport/SuiteSparseQRSupport.h
- using_cmake/src/Eigen/src/SPQRSupport/CMakeLists.txt
- using_cmake/src/Eigen/src/QR/HouseholderQR_MKL.h
- using_cmake/src/Eigen/src/QR/HouseholderQR.h
- using_cmake/src/Eigen/src/QR/FullPivHouseholderQR.h
- using_cmake/src/Eigen/src/QR/ColPivHouseholderQR_MKL.h
- using_cmake/src/Eigen/src/QR/ColPivHouseholderQR.h
- using_cmake/src/Eigen/src/QR/CMakeLists.txt
- using_cmake/src/Eigen/src/PardisoSupport/PardisoSupport.h
- using_cmake/src/Eigen/src/PardisoSupport/CMakeLists.txt
- using_cmake/src/Eigen/src/PaStiXSupport/PaStiXSupport.h
- using_cmake/src/Eigen/src/PaStiXSupport/CMakeLists.txt
- using_cmake/src/Eigen/src/OrderingMethods/Ordering.h
- using_cmake/src/Eigen/src/OrderingMethods/CMakeLists.txt
- using_cmake/src/Eigen/src/OrderingMethods/Amd.h
- using_cmake/src/Eigen/src/MetisSupport/MetisSupport.h
- using_cmake/src/Eigen/src/MetisSupport/CMakeLists.txt

- using_cmake/src/Eigen/src/LU/arch/Inverse_SSE.h
- using_cmake/src/Eigen/src/LU/arch/CMakeLists.txt
- using_cmake/src/Eigen/src/LU/PartialPivLU_MKL.h
- using_cmake/src/Eigen/src/LU/PartialPivLU.h
- using_cmake/src/Eigen/src/LU/Inverse.h
- using_cmake/src/Eigen/src/LU/FullPivLU.h
- using_cmake/src/Eigen/src/LU/Determinant.h
- using_cmake/src/Eigen/src/LU/CMakeLists.txt
- using_cmake/src/Eigen/src/Jacobi/Jacobi.h
- using_cmake/src/Eigen/src/Jacobi/CMakeLists.txt
- using_cmake/src/Eigen/src/IterativeLinearSolvers/IterativeSolverBase.h
- using_cmake/src/Eigen/src/IterativeLinearSolvers/IncompleteLUT.h
- using_cmake/src/Eigen/src/IterativeLinearSolvers/ConjugateGradient.h
- using_cmake/src/Eigen/src/IterativeLinearSolvers/CMakeLists.txt
- using_cmake/src/Eigen/src/IterativeLinearSolvers/BiCGSTAB.h
- using_cmake/src/Eigen/src/IterativeLinearSolvers/BasicPreconditioners.h
- using_cmake/src/Eigen/src/Householder/HouseholderSequence.h
- using_cmake/src/Eigen/src/Householder/Householder.h
- using_cmake/src/Eigen/src/Householder/CMakeLists.txt
- using_cmake/src/Eigen/src/Householder/BlockHouseholder.h
- using_cmake/src/Eigen/src/Geometry/arch/Geometry_SSE.h
- using_cmake/src/Eigen/src/Geometry/arch/CMakeLists.txt
- using_cmake/src/Eigen/src/Geometry/Umeyama.h
- using_cmake/src/Eigen/src/Geometry/Translation.h
- using_cmake/src/Eigen/src/Geometry/Transform.h
- using_cmake/src/Eigen/src/Geometry/Scaling.h
- using_cmake/src/Eigen/src/Geometry/RotationBase.h
- using_cmake/src/Eigen/src/Geometry/Rotation2D.h
- using_cmake/src/Eigen/src/Geometry/Quaternion.h
- using_cmake/src/Eigen/src/Geometry/ParametrizedLine.h
- using_cmake/src/Eigen/src/Geometry/OrthoMethods.h
- using_cmake/src/Eigen/src/Geometry/Hyperplane.h

- using_cmake/src/Eigen/src/Geometry/Homogeneous.h
- using_cmake/src/Eigen/src/Geometry/EulerAngles.h
- using_cmake/src/Eigen/src/Geometry/CMakeLists.txt
- using_cmake/src/Eigen/src/Geometry/AngleAxis.h
- using_cmake/src/Eigen/src/Geometry/AlignedBox.h
- using_cmake/src/Eigen/src/Eigenvalues/Tridiagonalization.h
- using_cmake/src/Eigen/src/Eigenvalues/RealSchur_MKL.h
- using_cmake/src/Eigen/src/Eigenvalues/RealSchur.h
- using_cmake/src/Eigen/src/Eigenvalues/RealQZ.h
- using_cmake/src/Eigen/src/Eigenvalues/HessenbergDecomposition.h
- using_cmake/src/Eigen/src/Eigenvalues/ComplexSchur_MKL.h
- using_cmake/src/Eigen/src/Eigenvalues/ComplexSchur.h
- using_cmake/src/Eigen/src/Eigenvalues/CMakeLists.txt
- using_cmake/src/Eigen/src/Eigen2Support/VectorBlock.h
- using_cmake/src/Eigen/src/Eigen2Support/TriangularSolver.h
- using_cmake/src/Eigen/src/Eigen2Support/SVD.h
- using_cmake/src/Eigen/src/Eigen2Support/QR.h
- using_cmake/src/Eigen/src/Eigen2Support/Minor.h
- using_cmake/src/Eigen/src/Eigen2Support/Meta.h
- using_cmake/src/Eigen/src/Eigen2Support/Memory.h
- using_cmake/src/Eigen/src/Eigen2Support/MathFunctions.h
- using_cmake/src/Eigen/src/Eigen2Support/Macros.h
- using_cmake/src/Eigen/src/Eigen2Support/LeastSquares.h
- using_cmake/src/Eigen/src/Eigen2Support/Lazy.h
- using_cmake/src/Eigen/src/Eigen2Support/LU.h
- using_cmake/src/Eigen/src/Eigen2Support/Geometry/Translation.h
- using_cmake/src/Eigen/src/Eigen2Support/Geometry/Transform.h
- using_cmake/src/Eigen/src/Eigen2Support/Geometry/Scaling.h
- using_cmake/src/Eigen/src/Eigen2Support/Geometry/RotationBase.h
- using_cmake/src/Eigen/src/Eigen2Support/Geometry/Rotation2D.h
- using_cmake/src/Eigen/src/Eigen2Support/Geometry/Quaternion.h
- using_cmake/src/Eigen/src/Eigen2Support/Geometry/ParametrizedLine.h

- using_cmake/src/Eigen/src/Eigen2Support/Geometry/Hyperplane.h
- using_cmake/src/Eigen/src/Eigen2Support/Geometry/CMakeLists.txt
- using_cmake/src/Eigen/src/Eigen2Support/Geometry/AngleAxis.h
- using_cmake/src/Eigen/src/Eigen2Support/Geometry/All.h
- using_cmake/src/Eigen/src/Eigen2Support/Geometry/AlignedBox.h
- using_cmake/src/Eigen/src/Eigen2Support/CwiseOperators.h
- using_cmake/src/Eigen/src/Eigen2Support/Cwise.h
- using_cmake/src/Eigen/src/Eigen2Support/CMakeLists.txt
- using_cmake/src/Eigen/src/Eigen2Support/Block.h
- using_cmake/src/Eigen/src/Core/util/XprHelper.h
- using_cmake/src/Eigen/src/Core/util/StaticAssert.h
- using_cmake/src/Eigen/src/Core/util/ReenableStupidWarnings.h
- using_cmake/src/Eigen/src/Core/util/NonMPL2.h
- using_cmake/src/Eigen/src/Core/util/Meta.h
- using_cmake/src/Eigen/src/Core/util/Memory.h
- using_cmake/src/Eigen/src/Core/util/Macros.h
- using_cmake/src/Eigen/src/Core/util/MKL_support.h
- using_cmake/src/Eigen/src/Core/util/ForwardDeclarations.h
- using_cmake/src/Eigen/src/Core/util/DisableStupidWarnings.h
- using_cmake/src/Eigen/src/Core/util/Constants.h
- using_cmake/src/Eigen/src/Core/util/CMakeLists.txt
- using_cmake/src/Eigen/src/Core/util/BlasUtil.h
- using_cmake/src/Eigen/src/Core/products/TriangularSolverVector.h
- using_cmake/src/Eigen/src/Core/products/TriangularSolverMatrix_MKL.h
- using_cmake/src/Eigen/src/Core/products/TriangularSolverMatrix.h
- using_cmake/src/Eigen/src/Core/products/TriangularMatrixVector_MKL.h
- using_cmake/src/Eigen/src/Core/products/TriangularMatrixVector.h
- using_cmake/src/Eigen/src/Core/products/TriangularMatrixMatrix_MKL.h
- using_cmake/src/Eigen/src/Core/products/TriangularMatrixMatrix.h
- using_cmake/src/Eigen/src/Core/products/SelfadjointRank2Update.h
- using_cmake/src/Eigen/src/Core/products/SelfadjointProduct.h
- using_cmake/src/Eigen/src/Core/products/SelfadjointMatrixVector_MKL.h

- using_cmake/src/Eigen/src/Core/products/SelfadjointMatrixVector.h
- using_cmake/src/Eigen/src/Core/products/SelfadjointMatrixMatrix_MKL.h
- using_cmake/src/Eigen/src/Core/products/SelfadjointMatrixMatrix.h
- using_cmake/src/Eigen/src/Core/products/Parallelizer.h
- using_cmake/src/Eigen/src/Core/products/GeneralMatrixVector_MKL.h
- using_cmake/src/Eigen/src/Core/products/GeneralMatrixVector.h
- using_cmake/src/Eigen/src/Core/products/GeneralMatrixMatrix_MKL.h
- using_cmake/src/Eigen/src/Core/products/GeneralMatrixMatrixTriangular_MKL.h
- using_cmake/src/Eigen/src/Core/products/GeneralMatrixMatrixTriangular.h
- using_cmake/src/Eigen/src/Core/products/GeneralMatrixMatrix.h
- using_cmake/src/Eigen/src/Core/products/GeneralBlockPanelKernel.h
- using_cmake/src/Eigen/src/Core/products/CoeffBasedProduct.h
- using_cmake/src/Eigen/src/Core/products/CMakeLists.txt
- using_cmake/src/Eigen/src/Core/arch/SSE/PacketMath.h
- using_cmake/src/Eigen/src/Core/arch/SSE/MathFunctions.h
- using_cmake/src/Eigen/src/Core/arch/SSE/Complex.h
- using_cmake/src/Eigen/src/Core/arch/SSE/CMakeLists.txt
- using_cmake/src/Eigen/src/Core/arch/NEON/PacketMath.h
- using_cmake/src/Eigen/src/Core/arch/NEON/Complex.h
- using_cmake/src/Eigen/src/Core/arch/NEON/CMakeLists.txt
- using_cmake/src/Eigen/src/Core/arch/Default/Settings.h
- using_cmake/src/Eigen/src/Core/arch/Default/CMakeLists.txt
- using_cmake/src/Eigen/src/Core/arch/CMakeLists.txt
- using_cmake/src/Eigen/src/Core/arch/AltiVec/PacketMath.h
- using_cmake/src/Eigen/src/Core/arch/AltiVec/Complex.h
- using_cmake/src/Eigen/src/Core/arch/AltiVec/CMakeLists.txt
- using_cmake/src/Eigen/src/Core/Visitor.h
- using_cmake/src/Eigen/src/Core/VectorwiseOp.h
- using_cmake/src/Eigen/src/Core/VectorBlock.h
- using_cmake/src/Eigen/src/Core/TriangularMatrix.h
- using_cmake/src/Eigen/src/Core/Transpositions.h
- using_cmake/src/Eigen/src/Core/Transpose.h

- using_cmake/src/Eigen/src/Core/Swap.h
- using_cmake/src/Eigen/src/Core/Stride.h
- using_cmake/src/Eigen/src/Core/StableNorm.h
- using_cmake/src/Eigen/src/Core/SolveTriangular.h
- using_cmake/src/Eigen/src/Core/SelfCwiseBinaryOp.h
- using_cmake/src/Eigen/src/Core/SelfAdjointView.h
- using_cmake/src/Eigen/src/Core/Select.h
- using_cmake/src/Eigen/src/Core/Reverse.h
- using_cmake/src/Eigen/src/Core/ReturnByValue.h
- using_cmake/src/Eigen/src/Core/Replicate.h
- using_cmake/src/Eigen/src/Core/Ref.h
- using_cmake/src/Eigen/src/Core/Redux.h
- using_cmake/src/Eigen/src/Core/Random.h
- using_cmake/src/Eigen/src/Core/ProductBase.h
- using_cmake/src/Eigen/src/Core/PlainObjectBase.h
- using_cmake/src/Eigen/src/Core/PermutationMatrix.h
- using_cmake/src/Eigen/src/Core/NumTraits.h
- using_cmake/src/Eigen/src/Core/NoAlias.h
- using_cmake/src/Eigen/src/Core/NestByValue.h
- using_cmake/src/Eigen/src/Core/MatrixBase.h
- using_cmake/src/Eigen/src/Core/Matrix.h
- using_cmake/src/Eigen/src/Core/MathFunctions.h
- using_cmake/src/Eigen/src/Core/MapBase.h
- using_cmake/src/Eigen/src/Core/Map.h
- using_cmake/src/Eigen/src/Core/IO.h
- using_cmake/src/Eigen/src/Core/GlobalFunctions.h
- using_cmake/src/Eigen/src/Core/GenericPacketMath.h
- using_cmake/src/Eigen/src/Core/GeneralProduct.h
- using_cmake/src/Eigen/src/Core/Fuzzy.h
- using_cmake/src/Eigen/src/Core/Functors.h
- using_cmake/src/Eigen/src/Core/ForceAlignedAccess.h
- using_cmake/src/Eigen/src/Core/Flagged.h

- using_cmake/src/Eigen/src/Core/Dot.h
- using_cmake/src/Eigen/src/Core/DiagonalProduct.h
- using_cmake/src/Eigen/src/Core/DiagonalMatrix.h
- using_cmake/src/Eigen/src/Core/Diagonal.h
- using_cmake/src/Eigen/src/Core/DenseStorage.h
- using_cmake/src/Eigen/src/Core/DenseCoeffsBase.h
- using_cmake/src/Eigen/src/Core/DenseBase.h
- using_cmake/src/Eigen/src/Core/CwiseUnaryView.h
- using_cmake/src/Eigen/src/Core/CwiseUnaryOp.h
- using_cmake/src/Eigen/src/Core/CwiseNullaryOp.h
- using_cmake/src/Eigen/src/Core/CwiseBinaryOp.h
- using_cmake/src/Eigen/src/Core/CoreIterators.h
- using_cmake/src/Eigen/src/Core/CommaInitializer.h
- using_cmake/src/Eigen/src/Core/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/src/Core/arch/AltiVec/Complex.h
- using_eclips_oxygen/src/Eigen/src/Core/arch/AltiVec/CMakeLists.txt
- using_eclips_oxygen/src/Eigen/src/Core/Visitor.h
- using_eclips_oxygen/src/Eigen/src/Core/VectorwiseOp.h
- using_eclips_oxygen/src/Eigen/src/Core/VectorBlock.h
- using_eclips_oxygen/src/Eigen/src/Core/TriangularMatrix.h
- using_eclips_oxygen/src/Eigen/src/Core/Transpositions.h
- using_eclips_oxygen/src/Eigen/src/Core/Transpose.h
- using_eclips_oxygen/src/Eigen/src/Core/Swap.h
- using_cmake/src/Eigen/src/Core/BooleanRedux.h
- using_cmake/src/Eigen/src/Core/Block.h
- using_cmake/src/Eigen/src/Core/BandMatrix.h
- using_cmake/src/Eigen/src/Core/Assign_MKL.h
- using_cmake/src/Eigen/src/Core/Assign.h
- using_cmake/src/Eigen/src/Core/ArrayWrapper.h
- using_cmake/src/Eigen/src/Core/ArrayBase.h
- using_cmake/src/Eigen/src/Core/Array.h
- using_cmake/src/Eigen/src/CholmodSupport/CholmodSupport.h

- using_cmake/src/Eigen/src/CholmodSupport/CMakeLists.txt
- using_cmake/src/Eigen/src/Cholesky/LLT_MKL.h
- using_cmake/src/Eigen/src/Cholesky/LLT.h
- using_cmake/src/Eigen/src/Cholesky/LDLT.h
- using_cmake/src/Eigen/src/Cholesky/CMakeLists.txt
- using_cmake/src/Eigen/src/CMakeLists.txt
- using_cmake/src/Eigen/UmfPackSupport
- using_cmake/src/Eigen/SuperLUSupport
- using_cmake/src/Eigen/StdVector
- using_cmake/src/Eigen/StdList
- using_cmake/src/Eigen/StdDeque
- using_cmake/src/Eigen/SparseQR
- using_cmake/src/Eigen/SparseLU
- using_cmake/src/Eigen/SparseCore
- using_cmake/src/Eigen/SparseCholesky
- using_cmake/src/Eigen/Sparse
- using_cmake/src/Eigen/SVD
- using_cmake/src/Eigen/SPQRSupport
- using_cmake/src/Eigen/QtAlignedMalloc
- using_cmake/src/Eigen/QR
- using_cmake/src/Eigen/PardisoSupport
- using_cmake/src/Eigen/PaStiXSupport
- using_cmake/src/Eigen/OrderingMethods
- using_cmake/src/Eigen/MetisSupport
- using_cmake/src/Eigen/LeastSquares
- using_cmake/src/Eigen/LU
- using_cmake/src/Eigen/Jacobi
- using_cmake/src/Eigen/IterativeLinearSolvers
- using_cmake/src/Eigen/Householder
- using_cmake/src/Eigen/Geometry
- using_cmake/src/Eigen/Dense
- using_cmake/src/Eigen/Core

- using_cmake/src/Eigen/CholmodSupport
- using_cmake/src/Eigen/Cholesky
- using_cmake/src/Eigen/CMakeLists.txt
- using_cmake/src/Eigen/Array
- using_cmake/install_envs/install-ubuntu.sh
- using_cmake/install_envs/install-mac.sh
- using_cmake/data/obj_pose-laser-radar-synthetic-input.txt
- using_cmake/cmakepatch.txt
- using_cmake/README.md
- using_cmake/Docs/Input_Output File Format.txt
- using_cmake/CMakeLists.txt
- install-ubuntu.sh
- install-mac.sh
- README.md

Learn the best practices for revising and resubmitting your project.

RETURN TO PATH

Rate this review