Hctionlib tutorial

(1) Woriting a Simple action Seaver using

Other god Fibonacci: 1,1,2,3,5,8,13,21... orelated orequest Takes God Feedback as_(nh_, name, boost::bind(&FibonacciAction::executeCB, this, _1), false) of ation Sunction pointer You need to address Callbaks many (alito_Start) as_·Stant(); > Explicitly Start the action Server, wood if auto_Start is Set to false. as_. is Porempt Requested () > Allow polling implementation to guerry about parempt siegnest. // set the action state to preempted as_.setPreempted(); // publish the feedback as_.publishFeedback(feedback_); // set the action state to succeeded as_.setSucceeded(result_); To check that your action is running properly list topics being published: \$ rostopic list -v You will see something similar to: Published topics:

- * /fibonacci/feedback [actionlib_tutorials/FibonacciActionFeedback] 1 publisher
- * /fibonacci/status [actionlib_msgs/GoalStatusArray] 1 publisher
- * /rosout [rosgraph_msgs/Log] 1 publisher
- * /fibonacci/result [actionlib_tutorials/FibonacciActionResult] 1 publisher
- * /rosout_agg [rosgraph_msgs/Log] 1 publisher

Subscribed topics:

- * /fibonacci/goal [actionlib_tutorials/FibonacciActionGoal] 1 subscriber
- * /fibonacci/cancel [actionlib_msgs/GoalID] 1 subscriber
- * /rosout [rosgraph_msgs/Log] 1 subscriber

ac.sendGoal(goal);

//wait for the action to return
bool finished_before_timeout = ac.waitForResult(ros::Duration(30.0));

The timeout on the wait is set to 30 seconds, this means after 30 seconds the function will return with false if the goal has not finished.

ac.getState();

Returns Storint info about the state.

Desiting a simple action server using the goal callback method

//register the goal and feeback callbacks
as_.registerGoalCallback(boost::bind(&AveragingAction::goalCB, this));
as_.registerPreemptCallback(boost::bind(&AveragingAction::preemptCB, this));