Compilando e executando o simulador de 3GLTE no Linux Ubuntu 10.10

Passos:

1. Instalar as bibliotecas ITPP,LAPACK, ATLAS e FFT

* apt-get install libitpp-dev
* apt-get install liblapack-dev
* apt-get install libatlas-dev
* apt-get install fftw-dev
* apt-get install libatlas3gf-base

1. SmallScaleFading.it

* Existe um arquivo chamado SmallScaleFading.it que é utilizado por, entre outros, ChannelParameters.cpp com a opção de leitura ou escrita e leitura.
* Se for a primeira vez marque "false" para que o programa crie o arquivo de tabela para o small scale fading, depois pode-se escolher "true" ou "false" para ser ou não gerada uma nova tabela.

1. Entre na pasta Source e execute o comando:

g++ main.cpp Simulation/Simulation.cpp PhysicalNode/Antenna.cpp Parameters/AntennaParameters.cpp RRM/Scheduler/BestCQIAlgorithm.cpp RadioChannel/Channel.cpp Parameters/ChannelParameters.cpp RadioChannel/ClarkeChannel.cpp PhysicalNode/Device.cpp PhysicalNode/ENodeB.cpp RadioChannel/Fading.cpp Parameters/File.cpp PhysicalLayer/Frame.cpp RRM/FrequencyPlanning/FrequencyPlanning.cpp RadioChannel/FrequencySelectiveChannel.cpp PhysicalNode/GenericAntenna.cpp Grid/Grid.cpp Parameters/GridParameters.cpp RadioChannel/LargeScaleFading.cpp Link/Link.cpp RRM/LinkAdaptation/LinkAdaptation.cpp Parameters/LinkAdaptationParameters.cpp Basic/MathFunctions.cpp Mobility/Mobility.cpp Parameters/MobilityParameters.cpp Parameters/Parameters.cpp PhysicalLayer/PhysicalLayer.cpp Parameters/PhysicalLayerParameters.cpp PhysicalNode/PhysicalNode.cpp PhysicalLayer/PhysicalResourceBlock.cpp RRM/Scheduler/ProportionalFairAlgorithm.cpp RadioChannel/RadioChannel.cpp RRM/Scheduler/RandomAlgorithm.cpp RadioChannel/RayleighChannel.cpp PhysicalNode/Reciever.cpp PhysicalLayer/ResourceElement.cpp Results/Results.cpp RRM/Scheduler/Scheduler.cpp Parameters/SchedulerParameters.cpp RRM/Scheduler/SchedulingAlgorithm.cpp SimulationEnvironment/SimulationEnvironment.cpp Parameters/SimulationParameters.cpp PhysicalLayer/Slot.cpp RadioChannel/SmallScaleFading.cpp Basic/Statistics.cpp PhysicalLayer/Subcarrier.cpp PhysicalLayer/Subframe.cpp Parameters/SystemParameters.cpp TimeManager/TimeManager.cpp Transmission/Transmission.cpp PhysicalNode/Transmitter.cpp PhysicalNode/User.cpp Parameters/UserParameters.cpp Basic/VectorFunctions.cpp Basic/Position.cpp -I Simulation -I Parameters -I Basic -I RadioChannel -I PhysicalNode -I SimulationEnvironment -I PhysicalLayer -I RRM/Scheduler -I RRM/LinkAdaptation -I TimeManager -I Mobility -I Grid -I Link -I RRM/FrequencyPlanning -I Transmission -I Results `itpp-config --cflags` -o Simulacao `itpp-config --static --libs --debug`

1. Execução do programa:

* Execute o commando

./Simulacao

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