









EVENTO SIMULADO

- Esse exemplo simula um sistema EDF com 3 Tasks. O sistema pertence a um supercomputador conhecido como Enma Core.
- * As Tasks foram criadas para processar os dados de um novo hardware adicionado à sua estrutura.

	Task 1	Task 2	Task 3	
$a_{_i}$	0	0	200	
C_{i}	100	200	200	
$d_{_i}$	200	500	400	

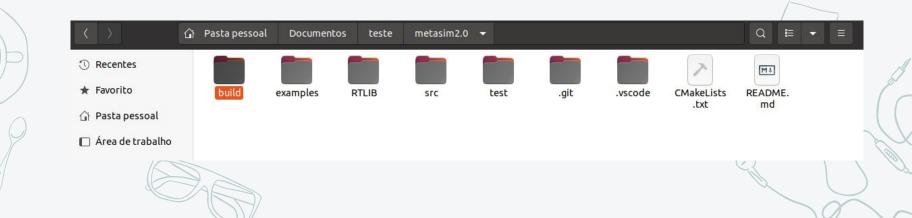






METASIM

- **X** Git clone https://github.com/glipari/metasim2.0.git
- **x** cd metasim2.0
- ***** mkdir build
- **x** cd build
- **x** cmake ..









- ★ Git clone https://github.com/ReTiS-Lab/RTLIB.git
- ***** cd RTLIB
- ***** mkdir build
- **x** cd build
- **x** cmake ..

A pasta RTLIB deve está dentro de metasim2.0.





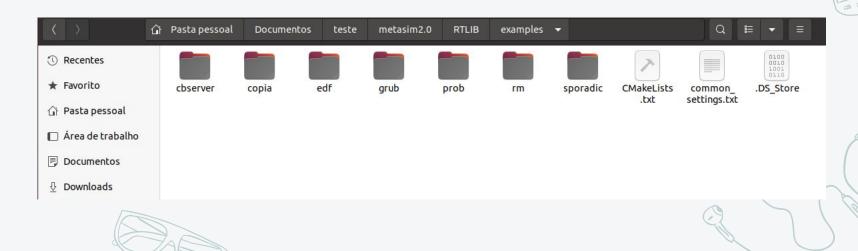






CRIAÇÃO DA PASTA "COPIA"

Na pasta "examples" em RTlib exitem vários exemplos que podem ser reaproveitados para a criação de um novo projeto específico.

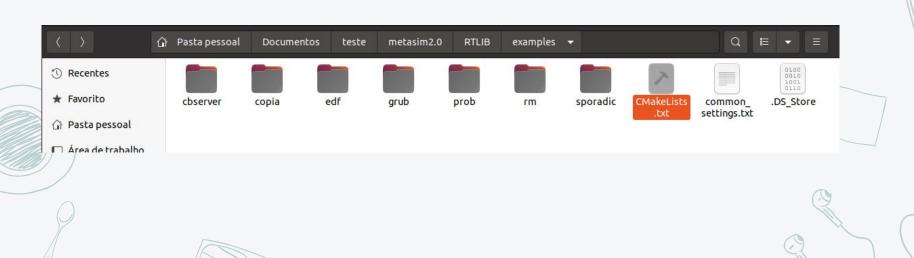






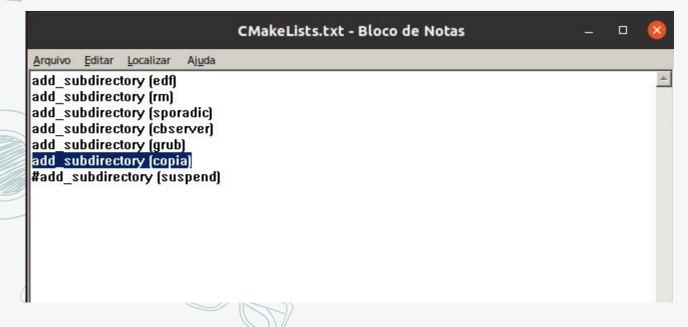


Abra o arquivo "CMakeLists.txt" do "exemples" de RTLIB.





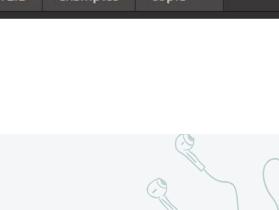
Dentro de "CMakeLists.txt" adicione o subdiretório "copia" para que ele possa ser compilado.







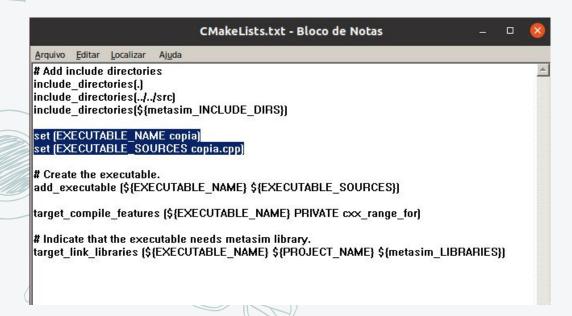








Dentro de "CMakeLists.txt" altere as seguintes linhas para que seja possível a geração dos executáveis.





Dê o comando "make" para compilar o "copia.cpp".

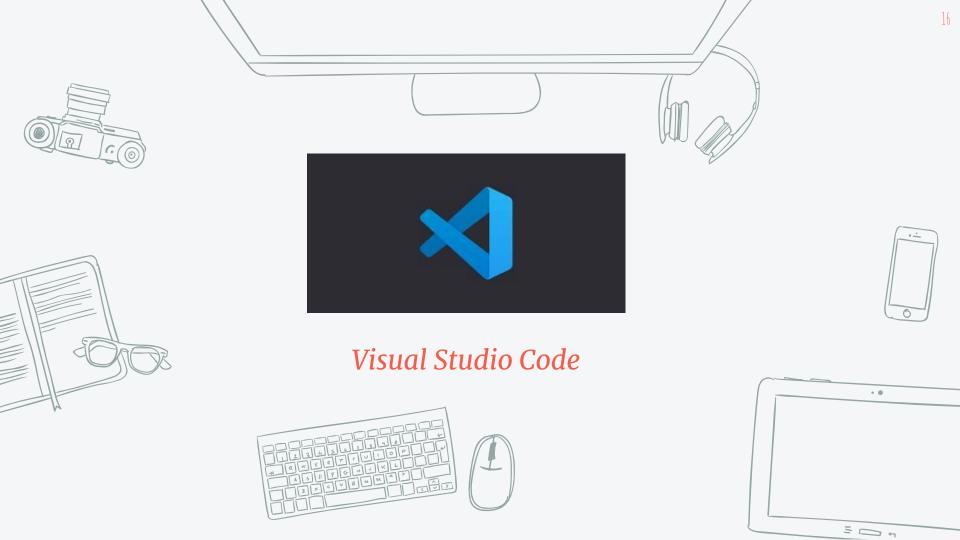
```
natalia@natalia-S14BW01:~/Documentos/teste/metasim2.0/RTLIB/build$ make
 65%] Built target rtlib
 68%] Built target edf
 70%] Built target rm
 73%] Built target sprunt_example1
  76%] Built target spsl
 78%] Built target cbs
 81%] Built target grub
 84%] Built target copia
 86%] Built target rtlib test
 89%] Built target TestThresholds
 92%] Built target TestAVR
 94%] Built target TestMRT
 97%] Built target TestTask
[100%] Built target TestCBS
natalia@natalia-S14BW01:~/Documentos/teste/metasim2.0/RTLIB/build$
```



Por fim, dê o comando "./copia" no caminho descrito.

```
natalia@natalia-S14BW01: ~/Documentos/teste/metasim2.0/RTLIB/build/e...
natalia@natalia-S14BW01:~$ cd Documentos/teste/metasim2.0/RTLIB/build/examples/copia
natalia@natalia-S14BW01:~/Documentos/teste/metasim2.0/RTLIB/build/examples/copia$ ls
CMakeFiles
                     copia
                                grafico.pst trace.json
cmake install.cmake debug.txt Makefile
                                             trace.txt
natalia@natalia-S14BW01:~/Documentos/teste/metasim2.0/RTLIB/build/examples/copia$ ./copia
Bem-vindos a nova versao do ENMA CORE =)
Inicializando escalonador e kernel...
Criando Task 1
Ajustando WCET da Task 1
Criando Task 2
Ajustando WCET da Task 2
Criando Task 3
Aiustando WCET da Task 3
Adicionando as configuracoes necessarias...
Adicionando tarefas ao kernel...
Simulando...
One single run
Run #0
Hardware configurado com sucesso!
```





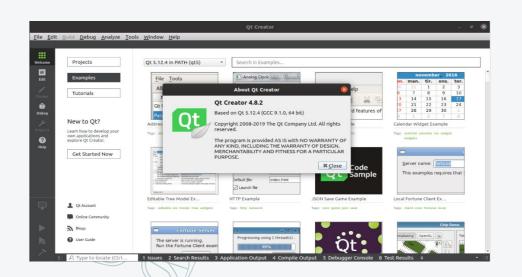






QT SDK

- sudo apt install g++
- sudo apt install qt5-default qtcreator qtbase5-examples qtbase5-doc-html



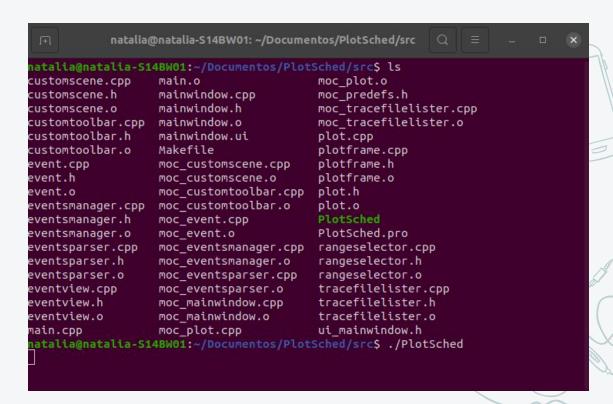






PLOTSCHED

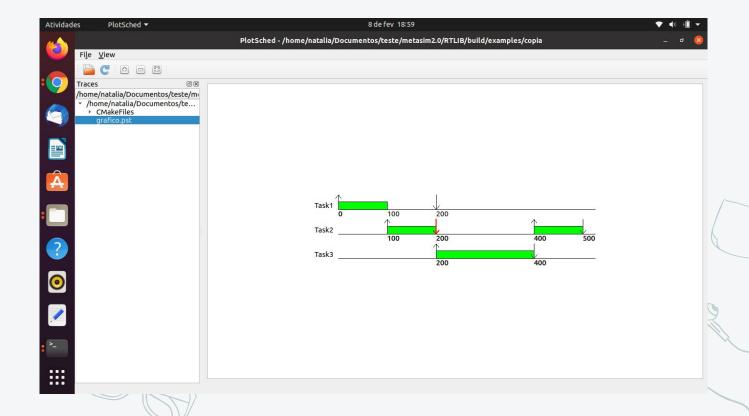
git clone
 https://github.com/
 balsini/PlotSched.git
cd Plotsched
cd src
make
./Plotsched

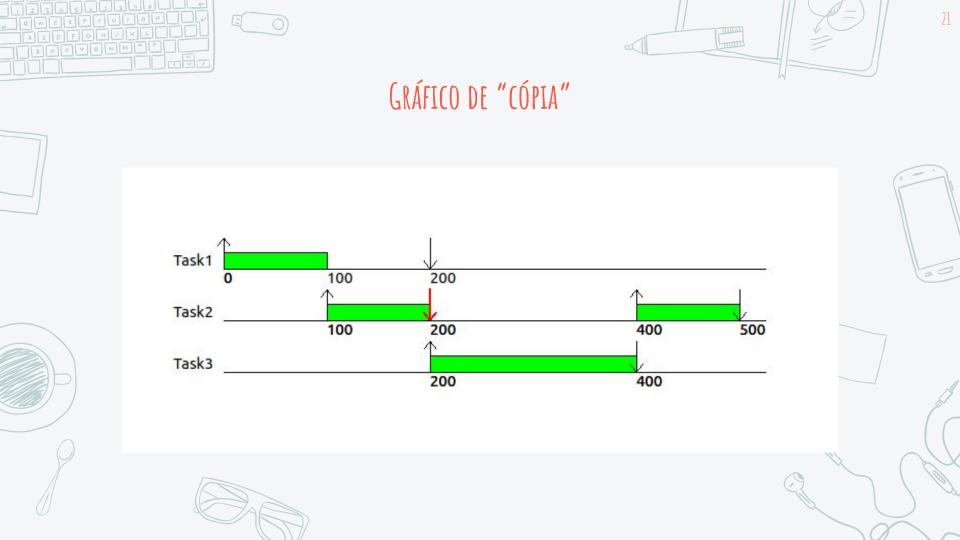






INTERFACE DO PLOTSCHED







CÓDIGO PST



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100	Task2	0	CREATION	ř.		
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500	Task2	0	DEADLINE	ľ		
200	Task3	0	CREATION	Ĺ		
400	Task3	0	CREATION			
400	Task3	0	DEADLINE	Ĭ.		
500	Task3	0	CREATION			
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100	Task1	Ō	RUNNING	S E		
100	Task2	0	RUNNING	S		
200	Task2	0	RUNNING	E		
400	Task2	0	RUNNING	E S E		
500	Task2	0	RUNNING	E		
200	Task3	0	RUNNING	S E		
400	Task3	0	RUNNING	E		

EQUIPE



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