



# CAPC

## CDAC's Automatic Parallelizing Compiler

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# Motivation

Parallel Programming is still considered complex and high end

Most of the programs are sequential in nature

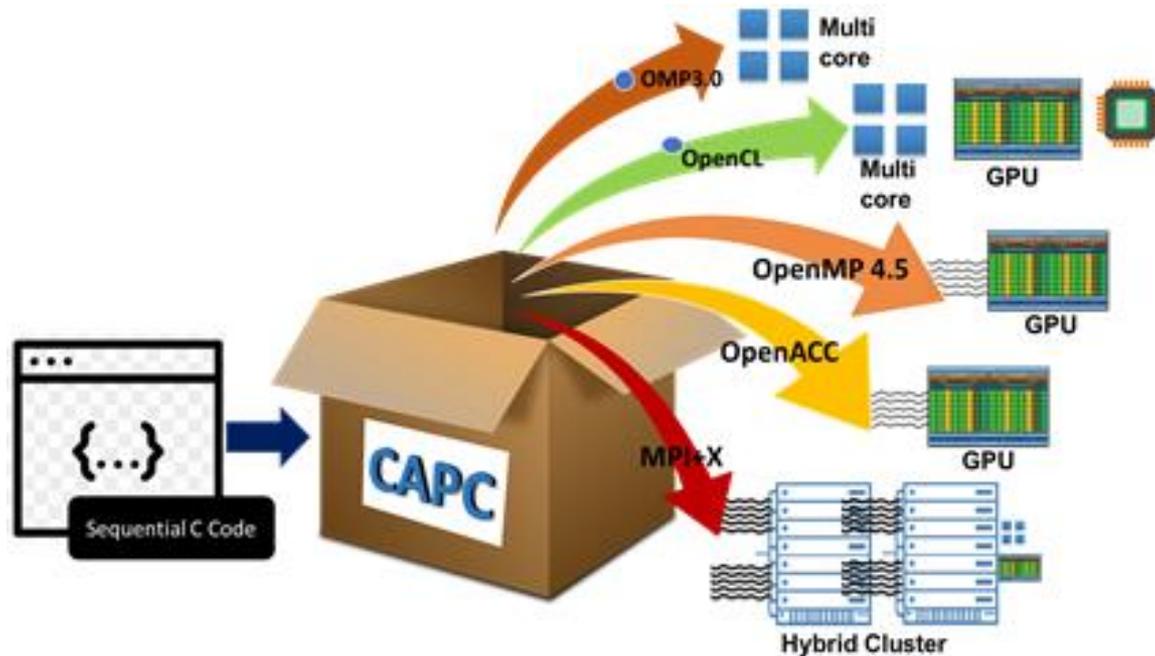


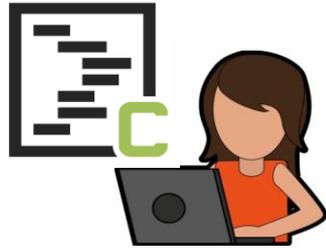
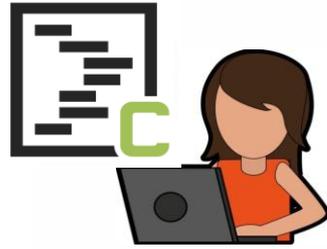
"I wish my sequential Program could run as it is on the latest Parallel Hardware!"



# CAPC

Automatically converts sequential programs to equivalent parallel programs for the target parallel architectures







# Features

- Ease of use
- Automatic parallelization
- Human readable output
- Support for multiple Parallel paradigms
- Profitability estimate
- Vendor agnostic

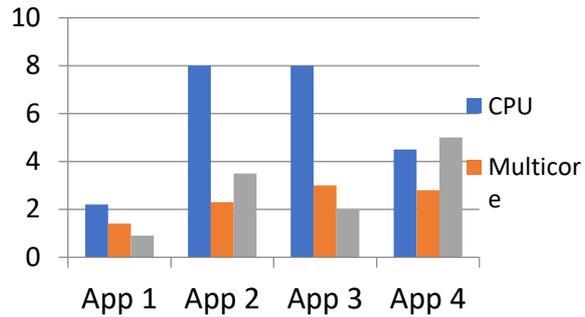
# Benefits

Automatic  
Parallelization of  
legacy codes

Improves  
programmer  
productivity

Speedup for large  
applications

Jumpstart Parallel  
programming



# Using CAPC on PARAM Pravega

- Login to PARAM Pravega with your User Credentials
- Go to CAPC installation location  
*\$cd /home/ext/apps/capc*
- Copy CAPC2.5 to your home directory  
*\$cp -r CAPC2.5 /home/user1*
- Change the CAPC\_HOME environment variable to point to the new location of CAPC2.5  
*\$CAPC\_HOME=/home/user1/CAPC2.5*
- Set the environment variables  
*\$source env.sh*
- Execute CAPC  
*\$cd examples/c2omp3.0*  
*\$capc -c2omp 3mm.c*



THANK YOU!

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