

Table of Contents

Code Performance Offline Guide.....	1
Contacts.....	1
Introduction.....	1
CMSSW Performance Suite Offline Guide.....	1
Tutorials.....	1
Documentation.....	1
Related pages.....	1
Review status.....	2

Code Performance Offline Guide

Complete: 

Contacts

- **Conveners:** Vincenzo Innocente
- **Hypernews forum:** <https://hypernews.cern.ch/HyperNews/CMS/get/code-perf.html>
(hn-cms-code-perf@cernNOSPAMPLEASE.ch)
- **Wiki of the Project:** CMS Performance Task Force

Introduction

CMSSW Performance Suite Offline Guide

- The CMSSW Performance Suite documentation
- How to run the CMSSW Performance Suite
- CMSSW Performance Suite CMS.ReIVal results - The official results for the ReIVal execution of the performance suite. As you can see there are several directories, Step1, Step2, GEN-SIM, DIGI, L1-RECO for the different steps run by ReIVal at each (pre-)release. There is also a directory Regression, that contains the same subdirectory structure, designated to publish the results of regression analysis between releases already available. Of course individual users can publish their results in other servers/locations using the CMSSW Performance Suite publishing script

Tutorials

- Optimize Your Code - a step by step guide to measure, analyze and improve the performance of CMSSW software

Documentation

- Callgrind - a tool to profile the performance of a software program
- CMS.IgProf - a tool to profile the performance and the memory usage of a software program
- KCachegrind - a GUI tool to analyze the results of Callgrind and CMS.IgProf
- PerfReport - a tool to produce static web pages from Callgrind and CMS.IgProf output
- EdmEventSize - a tool to measure the average size of each product in edm::Event
- ProfilerService - a service to instrument with performance measurement tools only some component of cmsRun
- PyReleaseValidation - A flexible tool developed in Python to perform Relval with the switchcases useful for benchmarking
- ValgrindMemcheckParser - A small perl script to convert the output from valgrind memcheck into nice-looking linked HTML pages, customizable filter options.

Related pages

- SWGuideTimeProfileTools

Review status

Reviewer/Editor and Date	Comments
KatiLassilaPerini - 08 Mar 2007	created template page

Responsible: VincenzoInnocente

Last reviewed by: *Never reviewed*