

# Experiences from the Realtime Trigger Challenge I

## Internal Note

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## Abstract

In this document we summarise the experiences gained during the Real Time Trigger Challenge (RTTC), which took place in July 2005.

## Document Status Sheet

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### 1 Introduction

Here we describe aims and goals and also what we did *not* want to do.

### 2 Infrastructure

We describe the hardware inventory, the low-level front-end control (IPMI), cooling, stability of the operation etc... **Loic, Vincenzo, Domenico**

### 3 Control

#### 3.1 Introduction & Overview

Clara

#### 3.2 Farm Control

Umberto, Federico, Domenico, Vincenzo

#### 3.3 Gaucho

Eric

#### 3.4 Runcontrol

Badri, Clara

#### 3.5 Control PC

We describe how we set up the CPC and how we tried to cope with the problems described above  
**Artur, Vincenzo, Benjamin, Niko**

### 4 Data acquisition

#### 4.1 Introduction & Overview

What we wanted to do

#### 4.2 Data samples & preparation

Niko

#### 4.3 Data injection

Artur

## **4.4 Event building**

Benjamin

## **4.5 Gaudionline event reception**

Markus and Benjamin

# **5 Trigger code and performances**

## **5.1 Introduction to Euler and Moore**

Marco?

## **5.2 Running experiences with Euler and Moore**

Benjamin, Marco, Artur, Markus, Niko

## **5.3 Performance of Euler alone**

## **5.4 Performance of Moore alone**

## **5.5 Performance of Euler and Moore concurrently**

## **5.6 Trigger Monitoring**

We discuss that we (as we expected) did not find any differences between online and offline decisions

# **6 Conclusions**

Umberto and Beat