

# Distributed data reprocessing

Draft by Daniel Wicke

January 28, 2004

## Abstract

The DØ-experiment has rereconstructed all recorded data to create a homogeneous dataset for physics analysis based on an up to date understanding of the detector.

To finalise this effort in time for the winter conferences new computing resources had to be exploited. DØ therefore performed the task in a fully distributed manner utilising 7 computing centres in 6 countries. The diversity of these computing centres posed strong constraints on the software. DØ-tools and Grid-tools were used ....

This document shall describe the various aspects of a distributed reprocessing, discuss the problems that occurred and the experiences gained during the process.

## 1 Introduction

## 2 Planning

## 3 Operation

Data distribution (SAM)

Job distribution (manual, JIM)

Monitoring (manual)

Bookkeeping (Daniel, Lyon, NIKHEF, manual)

Cross-checks (In runjob, sam store, on d0mino)

## 4 Conclusions

### 4.1 DØ

In which order should we tackle the problems we have.

### 4.2 LCG

What would we imagin how things should work in an ideal Grid. (Compared to what exists in LCG)

## 5 Summary