From: Dirk Kruecker <d.kruecker@fz-juelich.de>
To: Sophie Kerhoas <skerhoas@cea.fr>
Subject: Re: root program to add Trees....
Date: Wed, 6 Oct 2004 10:11:10 +0200

Hi Sophie,

here comes the program.

You can compile with

```
   g++ Combine.C -o Combine -O
  -L$ROOTSYS/lib -lCore -lCint -lTree -lMatrix  -lm  -ldl -lHist
  -I$ROOTSYS/include
```

and just use it like this:

```
   Combine  outfile.root  infile1.root  infile2.root  [infile3.root ...]
```

or if you allow the program to overwrite an existing outfile.root

```
   Combine -d outfile.root  infile1.root  infile2.root  [infile3.root ...]
```

Your time slices should be disjunct otherwise you get a warning.

The eventID will be modified:

```
infile1.root                infile2.root
eventID 1 2 ... 100   eventID 1 2 ... 100
-> outfile.root
   eventID
   1 2 .... 100 101 102 ... 200
```

The present version of the program only adds up the Gate and Hits trees.
You do not get the Singles and Coincidences trees !
This is on purpose since I re-run Gate on the combined file

```
   mv outfile.root gate.root    (I guess one can tell DigiGate
                                          to use another name but I do not
                                           remember how)
   Gate -d                               ( using the same macro as before but
                                            with the one big time slice)
```

Digigate runs quite fast
The result is a digigate.root with the singles and conincidences trees and
empty Hits and Gate trees.

I hope this helps a bit. If you have any problems let me know.

Dirk

> Hi Dirk,
>   We are interested to launch Gate in a cluster of 5 bi-processor
> machines. We are beginners in using parallel jobs in a cluster. I was
> looking at the last presentations in New-York on this subject. We will
> split our run of an activity A, in N jobs with the same activity A but
> with the time slices following what you have presented at this Gate
> meeting. At the end, we will have N root files that we want to add. Is
> it possible to have your root program which made the combination of
> several Trees?
> We will compare with what we have done to be sure that we have the same
> results.
> Thanks in advance

> Thanks in advance,
> Sophie

text/x-c++src attachment (Combine.C)