

scl2txt program:

is used as follows:

```
./scl2txt run_low run_high file.out
```

One must specify 3 parameters: two run numbers and a file name of the output file. The two run numbers specify a range of runs to be processed. And the output file is a text file where the resulting summary will be saved.

source file is: **scl2txt.cpp**

can be compiled by running: **>make**

or by **>g++ scl2txt.cpp -o scl2txt**

Source file can be modified easily for any input scaler file format:

1. modification of the file name for each run:

default is: "run**.scalers" where "***" is run number

can be modified easily in the following section of the source code:

```
for(i=low_i;i<=high_i;i++) // <-- looping through all scaler files (runs)
{
    sprintf(filename,"run"); // <-- Putting the scaler file name together
    sprintf(numstring,"%d",i); // this part needs to be modified in case
    strcat(filename,numstring); // scaler file-names change
    strcat(filename,".scalers"); //
    printf("%s\n",filename); // Scaler file name is here
    ifstream fp(filename,ios::in|ios::nocreate); // opening the scaler file
    if(!fp.is_open())
        cerr << "Error: Scaler file: " << filename << " was not open! (run is
skipped!)\n";
    else
```

The two lines in bold show where changes should be made if the scaler files are called differently. First one: "prefix" of the filename is "run". The latter one "suffix" of the filename is ".scalers". In between we insert the run number, which is true in almost all cases.

2. Modification of the format of the scaler file. Changes will be made in the following section of the source code:

```
// ***** Reading the scaler file: *****
cout << "Converting file: " << filename << endl;
fp.getline(line,256);
fp.getline(line,256);
fp.getline(line,256);
fp.getline(line,256);
fp.getline(line,256);
fp.getline(line,256);
fp.getline(line,256); // ignoring first 7 lines from the scaler file
// these lines contain various descriptions
names.clear();
values.clear();
names.push_back("RUN");
values.push_back(i);
while (!fp.eof()) // reading the rest of the file
{
```


XFP.Scint	1479688500	333714.14	37660.25
XFP_SCINT	0	0.00	0.00