Subject: How to remove a candidate
Posted by StefanoSpataro on Wed, 27 Mar 2013 16:38:39 GMT

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Dear analysis experts,
if I check the macros in tutorials/feb12 I can see that in order to remove a candidate from a list, it is suggested to use something like:

```
for (int ii=0;ii<l.GetLength();++ii)
{
 if (!mcm.MctMatch(l[ii],mct))
 {
  l.Remove(l[ii]);
  removed++;
 }
}
```

You remove the ii element.

But if I check the old macro/run/tdrct/ macros, in the analysis it is used the following:

```
   int n_removed=0;
   int ii=0;
   for (Int_t l=0;l<pp.GetLength();l++){
     ii=l-n_removed;
     if((pp[ii].GetMicroCandidate()->GetSttHits())==0){
 pp.Remove(pp[ii]);
      n_removed++;
    }
   }
```

Here you remove the ii=l-n_removed element.

It is not clear to me which is the correct way to remove elements in the candidate list. In particolar, once one element is removed, I would presume that the TCandList has 1 element less and the length decreases. If I remove the element 0, the "old" element 1 will become the new element "0", but in the for the index increases then I will analyse the "new" element 1 (old element 2) forgetting the "old" element 1 which now is 0.

Which is the correct way? or maybe it is better to create a new empty list and to fill it with the relevant candidates?
I am also wodering if the old analyses were bugged or not.

Thanks in advance.