

```

title, "LHC version 6.5 - March 2005" ;
beam;
  set,      format="12.6f";

  !system, "ln -s . dn";

option, -echo, -info, -warn;
!CONST DS = 0.0;
!CONST r0 = 1.0;
call,   file="V6.5_ptc.seq";

  call,   file="V6.5.inj.new-nominal.str";
option, echo, info, warn;

beam, sequence=lhcb1, pc=7000;
beam, sequence=combi, pc=7000;
beam, sequence=lhcb2, pc=7000, bv=-1;

on_x1:=1; on_sep1:=1;
on_x2:=1; on_sep2:=1; on_alice:=1;
on_x5:=1; on_sep5:=1;
on_x8:=1; on_sep8:=1; on_lhcb :=1;

select, flag=twiss, clear;
select, flag=twiss,
column=name,s,betx,bety,alfx,alfy,dx,dpx,mux,muy,x,px,y,py;

!split,sequence=lhcb1,from=ARC12.S,to=ARC12.E, newname1=p1, newname2=p2;
!use,sequence=p1;
!use,sequence=p2;
split,sequence=lhcb1,from=ARC12.S, to=ARC12.E, newname1=p1;
split,sequence=lhcb1,from=ARC25.S, to=ARC25.E, newname1=p2;
split,sequence=lhcb1,from=ARC58.S, to=ARC58.E, newname1=p3;
split,sequence=lhcb1,from=ARC812.S,to=ARC812.E, newname1=p4;
use,sequence=p1;
use,sequence=p2;
use,sequence=p3;
use,sequence=p4;

// recombine sequence into one
value,lhclength;
value, ip11length;
value, arc12end;
value, arc12end+ip11length;

combi: sequence, l:=lhclength;
ir11, at=0;
p1, at=ip11length;
ir2, at=arc12end+ip2length/2.;
p2, at=arc12end+ip2length;
ir5, at=arc25end+ip5length/2.;
p3, at=arc25end+ip5length;
ir8, at=arc58end+ip8length/2.;
p4, at=arc58end+ip8length;
ir12, at=arc812end+ip11length;
endsequence;
use, period=combi;
twiss, sequence=combi, file=combi.twiss; !betx=1.,bety=1.,

```

```
use,    period=lhcb1;  
twiss, sequence=lhcb1, file=lhcb1.twiss; !betx=1.,bety=1.,  
stop;
```