```
function [q1, q1p,q1pp,q2,q2p,q2pp,q3,q3p,q3pp,Fq1,Fq2,Fq3] = traj gen(t,dT target, ...
                                 0 interp,Op interp,Opp interp,Fq interp)
val=find(dT target<=t);</pre>
indice=val(end);
a1 = 0 interp(indice,1);
a2 = 0 interp(indice,2);
a3 = 0 interp(indice,3);
a1p = Op interp(indice,1);
q2p = Op interp(indice,2);
q3p = Op interp(indice,3);
q1pp = Qpp interp(indice,1);
q2pp = Opp interp(indice,2);
q3pp = Qpp interp(indice,3);
Fq1 = 0;
Fq2 = 0;
Fq3 = 0;
```

end