

```
1 function MercuryModelEndTime, atoms, taa
2
3 na = n_elements(atoms) & nt = n_elements(taa)
4 SystemConstants, 'Mercury', c
5 planet_dist, taa, c, d=rr, v=vv
6
7 data = search_atomicdata()
8 result = dblarr(nt,na)
9 for i=0,na-1 do begin
10   q = (where((data.mechanism EQ 'photo') and (data.species EQ atoms[i]), nq))[0]
11   if (nq NE 1) then stop
12
13   print, data[q].file
14   restore, data[q].file
15   if (n_elements(ratecoef.kappa) NE 1) then stop
16   kappa = ratecoef.kappa / rr^2
17   life = 1./kappa
18   result[* ,i] = life * 4.
19 endfor
20
21 return, reform(result)
22
23 end
```