

FILE: NEWSEED.F90

```
1 subroutine newseed()
2
3   implicit none
4
5   integer :: i, j, n, nmax
6   integer, dimension(8) :: val
7   integer, dimension(64) :: f
8   integer, dimension(:), allocatable :: seed
9
10  call date_and_time(VALUES=val)
11
12  call random_seed(SIZE=nmax)
13  if(nmax>64) then
14      write(11,*) 'Seed size is too large:', nmax
15      stop
16  end if
17  allocate(seed(nmax))
18
19  ! generate 64 integers based on current date and time
20  call date_and_time(VALUES=val)
21  f = (val(8)+val(7)*1000+val(6)*60000)
22
23  call random_seed(GET=seed(1:nmax))
24
25  seed(1:nmax) = seed(1:nmax)*f(1:nmax)
26
27  call random_seed(PUT=seed(1:nmax))
28
29  end subroutine newseed
```