```
      DIMENSION Record(500)
!Control parameters:
      Num_Computes=500          !Repeat count for computation
      Num_Reads=35              !Number of records read
      Num_Writes=40             !Number of records written
      Num_Iterations=1000       !Repeat count for the experiment
!Open files:
      OPEN(UNIT=1,NAME='In.dat',TYPE='Old',
     1FORM='Unformatted',ACCESS='Direct')
      OPEN(UNIT=2,NAME='Out.dat',TYPE='New',
     1FORM='unformatted',ACCESS='Direct')
      CALL Get_Time(CPU1,Elapsed1)     !Record starting time

      DO 500 Iteration=1,Num_Iterations

!Perform a number of read I/Os
      DO 100 i=1,Num_Reads
      READ(1'i),Record
100   CONTINUE
!Do computation
      DO 200 j=1,Num_Computes
      DO 200 i=1,500
200   Record(i)=1 + i + i*i + i*i*i
!Perform a number of write I/Os
      DO 300 i=1,Num_Writes
      WRITE(2'i),Record
300   CONTINUE
500   CONTINUE
      CALL Get_Time(CPU2,Elapsed2)     !Get ending time
!Close files:
      CLOSE(UNIT=1)
      CLOSE(UNIT=2)
      CPU_Time=(CPU2-CPU1)/Num_Iterations
      Elapsed_Time=(Elapsed2-Elapsed1)/Num_Iterations
      TYPE *,'CPU time per iteration is ',CPU_Time
      TYPE *,'Elasped time per iteration is ',Elapsed_Time
      STOP
      END
```

An example @ synthetic workload generation program