

Sep 01, 05 9:48

matmult.f

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```
C -----
C  matrix multiplication
C
C  * f77 -O3 -apo -mplist matmult.f
C  * f77 -O3 -apo keep matmult.f
C
C  setenv OMP_NUM_THREADS N
C  setenv OMP_DYNAMIC FALSE
C -----
C  PROGRAM main
C
C  INTEGER N, I, J, K
C  PARAMETER (N = 512)
C
C  REAL A(N,N), B(N,N), C(N,N)
C
C  DO I=1,N
C    DO J=1,N
C      C(I,J) = 0
C      DO K=1,N
C        C(I,J) = C(I,J)+A(I,K)*B(K,j)
C      ENDDO
C    ENDDO
C  ENDDO
C
C  DO I=1,N
C    DO J=1,N
C      PRINT *, C(I,J)
C    ENDDO
C  ENDDO
C
C  END
```

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C *****
C Fortran file translated from WHIRL Mon Oct 30 18:39:40 2000
C *****

      PROGRAM MAIN
      IMPLICIT NONE

C
C      **** Variables and functions ****
C
      REAL*4 A(538_8, 512_8)
      REAL*4 B(538_8, 512_8)
      REAL*4 C(538_8, 512_8)
      INTEGER*4 I
      INTEGER*4 J
      INTEGER*4 K
      INTEGER*4 __mp_sug_numthreads_func$
      EXTERNAL __mp_sug_numthreads_func$

C
C      **** Temporary variables ****
C
      INTEGER*4 IO
      INTEGER*4 JO

C
C      **** statements ****
C
C      PARALLEL DO will be converted to SUBROUTINE __mpdo_MAIN__1
C$OMP PARALLEL DO if((__mp_sug_numthreads_func$() .GE. 2)), shared(C),
C$& private(IO, JO, K), shared(A, B, C)
      DO IO = 1, 512, 1
        DO JO = 1, 512, 1
          C(JO, IO) = 0.0
          DO K = 1, 512, 1
            C(JO, IO) = (C(JO, IO) + (A(K, IO) * B(K, JO)))
          END DO
        END DO
      END DO
      DO I = 1, 512, 1
        DO J = 1, 512, 1
          PRINT *, C(J, I)
        END DO
      END DO
      STOP
      END ! MAIN

```

Parallelization Log for Subprogram MAIN__

17: PARALLEL (Auto) __mpdo_MAIN__1

18: Not Parallel

Loop is contained within a parallel construct.

20: Not Parallel

Loop is contained within a parallel construct.

26: Not Parallel

Has IO statement on line 28.

27: Not Parallel

Has IO statement on line 28.