```
bash$ /usr/convex/bin/fc -O1 matmult.f

         Optimization for MAIN
```

Line Num.	Id Num.	Iter. Var.	Reordering Transformation	New Loops	Optimizing / Special Transformation
11	1	*NONE*	Serial		
12	2	*NONE*	Serial		
14	3	*NONE*	Serial		

```
bash$ /usr/convex/bin/fc -O2 matmult.f

         Optimization for MAIN
```

Line Num.	Id Num.	Iter. Var.	Reordering Transformation	New Loops	Optimizing / Special Transformation
11	1	I	*Dist	(2-3)	No Strip
11-1	2	I	*Interchange	(4)	(I J) -> (J I)
12-1	4	J	Serial		
11	5	I	Serial		Unroll
11-2	3	I	*Interchange	(6)	(I I J K K) -> (I K J I K) Blocked
11	6	I	Serial		
14-2	7	K	Serial		Blocked
12-2	8	J	*Unroll and Jam	(9)	
12	9	J	Serial		
11	10	I	*Unroll and Jam	(11-12)	
11	11	I	Serial		
14	13	K	Serial		
11	12	I	Serial		
14	14	K	Serial		Unroll

Line Num.	Id Num.	Iter. Var.	Analysis
11	6	I	Loop blocked by 88 iterations
14-2	7	K	Loop blocked by 88 iterations
11	5	I	Replicated: partially unrolled with factor of 8
11	11	I	Loop unrolled and jammed with factor of 5
12	9	J	Loop unrolled and jammed with factor of 4
14	14	K	Replicated: partially unrolled with factor of 5

```
bash$ /usr/convex/bin/fc -O3 -or all matmult.f

         Optimization for MAIN
```

Line Num.	Id Num.	Iter. Var.	Reordering Transformation	New Loops	Optimizing / Special Transformation
11	1	I	*Dist	(2-3)	No Strip
11-1	2	I	*DynSel	(4-5)	Work
11	4	I	*Interchange	(6)	(I J) -> (J I)
12	6	J	PARALLEL		
11	7	I	Serial		Unroll
11	5	I	*Interchange	(8)	(I J) -> (J I)
12	8	J	Serial		Removed
11	9	I	Serial		Unroll Removed
11-2	3	I	*DynSel	(10-11)	Work
11	10	I	*Interchange	(12)	(I I J K K) -> (I K J I K) Blocked
11	12	I	Serial		
14	13	K	Serial		Blocked

```
  12      14   J      *Unroll and Jam     (15)
  12      15   J       PARALLEL
  11      16   I      *Unroll and Jam     (17-18)
  11      17   I       Serial
  14      19   K       Serial
  11      18   I       Serial
  14      20   K       Serial                          Unroll

  11      11   I      *Interchange        (21)         (I I J K K) -> (I K J I
                                                        K) Blocked
  11      21   I       Serial                          Removed
  14      22   K       Serial                          Blocked Removed
  12      23   J      *Unroll and Jam     (24)
  12      24   J       Serial                          Removed
  11      25   I      *Unroll and Jam     (26-27)
  11      26   I       Serial                          Removed
  14      28   K       Serial                          Removed
  11      27   I       Serial                          Removed
  14      29   K       Serial                          Unroll Removed
```

Line Num.	Id Num.	Iter. Var.	Analysis
11	12	I	Loop blocked by 88 iterations
14	13	K	Loop blocked by 88 iterations
11	21	I	Loop blocked by 88 iterations
14	22	K	Loop blocked by 88 iterations
11	7	I	Replicated: partially unrolled with factor of 8
11	9	I	Loop removed
11	21	I	Loop removed
11	17	I	Loop unrolled and jammed with factor of 5
11	26	I	Loop unrolled and jammed with factor of 5
11	26	I	Loop removed
11	27	I	Loop removed
12	8	J	Loop removed
12	15	J	Loop unrolled and jammed with factor of 4
12	24	J	Loop unrolled and jammed with factor of 4
12	24	J	Loop removed
14	22	K	Loop removed
14	20	K	Replicated: partially unrolled with factor of 5
14	28	K	Loop removed
14	29	K	Loop removed

Line Num.	Id Num.	Iter. Var.	Priv. Var.	Privatization Information for Parallel Loops
12	6	J	J	Loop induction variable privatized
12	6	J	I	Reference privatized
12	15	J	J	Loop induction variable privatized