```
#pragma omp parallel [clause[[, ]clause]...] new-line
         structured-block
clause:
         if (scalar-expression)
         num threads (integer-expression)
         default(shared | none)
         private(list)
         firstprivate (list)
         shared (list)
         copyin (list)
         reduction (operator: list)
#pragma omp for [clause[[,] clause] ...] new-line
         for-loops
clause:
         private(list)
                                            The most common form
         firstprivate (list)
                                            of the for loop is shown
         lastprivate (list)
                                            below.
         reduction(operator: list)
         schedule(kind[, chunk size])
                                               for(var = 1b;
         collapse (m)
                                               var relational-op b;
         ordered
                                               var += incr)
         nowait
#pragma omp sections [clause[[,] clause] ...] new-line
         [#pragma omp section new-line]
           structured-block
         [#pragma omp section new-line
           structured-block ]
   clause:
            private (list)
            firstprivate (list)
            lastprivate (list)
            reduction(operator: list)
    #pragma omp parallel for [clause[[,] clause] ...] new-line
    #pragma omp parallel sections [clause[[, ]clause]...]
             new-line
             [#pragma omp section new-line]
                structured-block
             [#pragma omp section new-line
             structured-block 1
             }
    #pragma omp single [clause[[,] clause] ...] new-line
             structured-block
    clause:
             private (list)
             firstprivate (list)
             copyprivate (list)
             nowait
```

# **Data Sharing Attribute Clauses**

Data-sharing attribute clauses apply only to variables whose names are visible in the construct on which the clause appears.

#### default(shared|none);

Controls the default data-sharing attributes of variables that are referenced in a parallel or task construct.

## shared(list);

Declares one or more list items to be shared by tasks generated by a parallel or task construct.

#### private(list);

Declares one or more list items to be private to a task.

# firstprivate(list);

Declares one or more list items to be private to a task, and initializes each of them with the value that the corresponding original item has when the construct is encountered.

### lastprivate(list);

Declares one or more list items to be private to an implicit task, and causes the corresponding original item to be updated after the end of the region.

# reduction(operator:list);

Declares accumulation into the list items using the indicated associative operator. Accumulation occurs into a private copy for each list item which is then combined with the original item.