

Open MP - clauses

The table below summarizes which **clauses** are accepted by which OpenMP **directives**.

Clause	Description
<code>copyin</code>	Allows threads to access the master thread's value, for a threadprivate variable.
<code>copyprivate</code>	Specifies that one or more variables should be shared among all threads.
<code>default</code>	Specifies the behavior of unscoped variables in a parallel region.
<code>firstprivate</code>	Specifies that each thread should have its own instance of a variable, and that the variable should be initialized with the value of the variable, because it exists before the parallel construct.
<code>if</code>	Specifies whether a loop should be executed in parallel or in serial.
<code>lastprivate</code>	Specifies that the enclosing context's version of the variable is set equal to the private version of

	<p>whichever thread executes the</p> <p>final iteration (<code>for-loop</code> construct) or last section (<code>#pragma</code> sections).</p> <p>Overrides the barrier implicit in a directive.</p> <p>Sets the number of threads in a thread team.</p> <p>Required on a parallel <code>for-loop</code> statement if an ordered directive is to be used in the loop.</p> <p>Specifies that each thread should have its own instance of a variable.</p> <p>Specifies that one or more variables that are private to each thread are the subject of a reduction operation at the end of the parallel region.</p> <p>Applies to the <code>for</code> directive.</p> <p>Specifies that one or more variables should be shared among all threads.</p>
<code>nowait</code>	
<code>num_threads</code>	
<code>ordered</code>	
<code>private</code>	
<code>reduction</code>	
<code>schedule</code>	
<code>shared</code>	

Some examples next: