















Placing an Event Marker in the Command Queue

cl_event waitMarker;

status = clEnqueueMarker(cmdQueue, &waitMarker);

Note: this can throw its own event

This does not complete until all commands enqueued before it have completed.

This is just like a barrier, but it can throw an event to be waited for.



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Waiting for Events Without Enqueuing Another Command

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status = clWaitForEvents(2, dependencies);



event(s) to wait for

This **blocks** until the specified events are thrown, so use it carefully!



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```
I Like Synchronizing Things This Way
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     // wait until all queued tasks have taken place:
      void
     Wait( cl_command_queue queue )
           cl event wait;
           cl int
                    status;
           status = clEnqueueMarker( queue, &wait );
           if( status != CL_SUCCESS )
                fprintf( stderr, "Wait: clEnqueueMarker failed\n" );
           status = clWaitForEvents( 1, &wait );
                                                     // blocks until everything is done!
           if( status != CL_SUCCESS )
                fprintf( stderr, "Wait: clWaitForEvents failed\n" );
      Call this before starting the timer, before ending the timer, and before retrieving
Organ
     data from an array computed in an OpenCL program.
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                                                                                   mjb – April 7, 2020
```

