# clCreateProgramWithSource

Creates a program object for a context, and loads the source code specified by the text strings in the *strings* array into the program object.

```
cl_program clCreateProgramWithSource (cl_context context, cl_uint count, const char **strings, const size_t *lengths, cl_int *errcode_ret)
```

#### **Parameters**

#### context

Must be a valid OpenCL context.

### strings

An array of *count* pointers to optionally null-terminated character strings that make up the source code.

### lengths

An array with the number of chars in each string (the string length). If an element in *lengths* is zero, its accompanying string is null-terminated. If *lengths* is NULL, all strings in the *strings* argument are considered null-terminated. Any length value passed in that is greater than zero excludes the null terminator in its count.

#### errcode\_ret

Returns an appropriate error code. If *errcode\_ret* is NULL, no error code is returned.

# **Description**

This function creates a program object for a context, and loads the source code specified by the text strings in the *strings* array into the program object. The devices associated with the program object are the devices associated with *context*. The source code specified by *strings* is either an OpenCL C program source, header or implementation-defined source for custom devices that support an online compiler.

## **Errors**

clCreateProgramWithSource returns a valid non-zero program object and errcode\_ret is set to CL\_SUCCESS if the program object is created successfully. Otherwise, it returns a NULL value with one of the following error values returned in errcode\_ret:

- CL\_INVALID\_CONTEXT if context is not a valid context.
- CL\_INVALID\_VALUE if count is zero or if strings or any entry in strings is NULL.
- CL\_OUT\_OF\_RESOURCES if there is a failure to allocate resources required by the OpenCL implementation on the device.
- CL\_OUT\_OF\_HOST\_MEMORY if there is a failure to allocate resources required by the OpenCL implementation on the host.

# **Specification**



### Also see

clCreateProgramWithBinary, clReleaseProgram, clRetainProgram, Cardinality Diagram



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