Handling Compiler Driver Differences

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To pass options to the linker tool, each compiler driver has its own syntax.

The ``LINKER:`` prefix and ``,`` separator can be used to specify, in a portable

way, options to pass to the linker tool. ``LINKER:`` is replaced by the

appropriate driver option and ``,`` by the appropriate driver separator.

The driver prefix and driver separator are given by the values of the

:variable:`CMAKE\_<LANG>\_LINKER\_WRAPPER\_FLAG` and

:variable:`CMAKE\_<LANG>\_LINKER\_WRAPPER\_FLAG\_SEP` variables.

For example, ``"LINKER:-z,defs"`` becomes ``-Xlinker -z -Xlinker defs`` for

``Clang`` and ``-Wl,-z,defs`` for ``GNU GCC``.

The ``LINKER:`` prefix can be specified as part of a ``SHELL:`` prefix

expression.

The ``LINKER:`` prefix supports, as an alternative syntax, specification of

arguments using the ``SHELL:`` prefix and space as separator. The previous

example then becomes ``"LINKER:SHELL:-z defs"``.

.. note::

Specifying the ``SHELL:`` prefix anywhere other than at the beginning of the

``LINKER:`` prefix is not supported.