





Long Jump

<i>Normal Appl Progression</i>	<i>Appl Progression via Long Jump</i>
<pre>proc_a processing proc_b () proc_b processing proc_c () proc_c processing proc_d () proc_d processing return more proc_c processing return more proc_b processing return more proc_a processing</pre>	<pre>proc_a processing proc_b () proc_b processing proc_c () proc_c processing proc_d () proc_d processing long jump more proc_a processing</pre>



Long Jump

- Long jumps truncate the application call stack
- Sometimes referred to as nonlocal gotos
- The long jump must be primed via `setjmp`, which saves the application context at the time of invocation
- The long jump is executed via `longjmp`, which restores the application context



Long Jump

- When the application context is restored, the appearance is that `setjmp` is returning
- To determine whether the return is via the initial `setjmp` call, test the `setjmp` return value
- <http://faculty.washington.edu/sproedp/advc/csamples/less20.c.html>