A list of signals and what they mean

- These were all recorded from a Linux i386 system. Numbers may vary between platforms.
- Linux uses signals 34-64 for its real-time system which we are not interested in.
- "man 7 signal" gives the official manual page on signals.
- This is a fairly exhaustive list of signals. Only some of them will arise in the context of the make program.

No.	Short name	What it means
1	SIGHUP	If a process is being run from terminal and that terminal suddenly goes away then the process receives this signal. "HUP" is short for "hang up " and refers to hanging up the telephone in the days of telephone modems.
2	SIGINT	The process was " int errupted". This happens when you press Control+C on the controlling terminal.
3	SIGQUIT	
4	SIGILL	Illegal instruction. The program contained some machine code the CPU can't understand.
5	SIGTRAP	This signal is used mainly from within debuggers and program tracers.
6	SIGABRT	The program called the abort () function. This is an emergency stop.
7	SIGBUS	An attempt was made to access memory incorrectly. This can be caused by alignment errors in memory access etc.
8	SIGFPE	A floating point exception happened in the program.
9	SIGKILL	The process was explicitly killed by somebody wielding the kill program.
10	SIGUSR1	Left for the programmers to do whatever they want.
11	SIGSEGV	An attempt was made to access memory not allocated to the process. This is often caused by reading off the end of arrays etc.
12	SIGUSR2	Left for the programmers to do whatever they want.
13	SIGPIPE	If a process is producing output that is being fed into another process that consume it via a pipe ("producer consumer") and the consumer dies then the producer is sent this signal.
14	SIGALRM	A process can request a "wake up call" from the operating system at some time in the future by calling the alarm() function. When that time comes round the wake up call consists of this signal.
15	SIGTERM	The process was explicitly killed by somebody wielding the kill program.
16	unused	
17	SIGCHLD	The process had previously created one or more child processes with the fork() function. One or more of these processes has since died.
18	SIGCONT	(To be read in conjunction with SIGSTOP.) If a process has been paused by sending it SIGSTOP then sending SIGCONT to the process wakes it up again (" cont inues" it).
19	SIGSTOP	(To be read in conjunction with SIGCONT.) If a process is sent SIGSTOP it is paused by the operating system. All its

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		state is preserved ready for it to be restarted (by SIGCONT) but it doesn't get any more CPU cycles until then.
20	SIGTSTP	Essentially the same as SIGSTOP. This is the signal sent when the user hits Control+Z on the terminal. (SIGTSTP is short for "terminal stop ") The only difference between SIGTSTP and SIGSTOP is that pausing is only the <i>default</i> action for SIGTSTP but is the <i>required</i> action for SIGSTOP. The process can opt to handle SIGTSTP differently but gets no choice regarding SIGSTOP.
21	SIGTTIN	The operating system sends this signal to a backgrounded process when it tries to read in put from its terminal. The typical response is to pause (as per SIGSTOP and SIFTSTP) and wait for the SIGCONT that arrives when the process is brought back to the foreground.
22	SIGTTOU	The operating system sends this signal to a backgrounded process when it tries to write out put to its terminal. The typical response is as per SIGTTIN.
23	SIGURG	The operating system sends this signal to a process using a network connection when " urg ent" out of band data is sent to it.
24	SIGXCPU	The operating system sends this signal to a process that has exceeded its CPU limit. You can cancel any CPU limit with the shell command "ulimit -t unlimited" prior to running make though it is more likely that something has gone wrong if you reach the CPU limit in make.
25	SIGXFSZ	The operating system sends this signal to a process that has tried to create a file above the file size limit. You can cancel any file size limit with the shell command "ulimit -f unlimited" prior to running make though it is more likely that something has gone wrong if you reach the file size limit in make.
26	SIGVTALRM	This is very similar to SIGALRM, but while SIGALRM is sent after a certain amount of real time has passed, SIGVTALRM is sent after a certain amount of time has been spent running the process.
27	SIGPROF	This is also very similar to SIGALRM and SIGVTALRM, but while SIGALRM is sent after a certain amount of real time has passed, SIGPROF is sent after a certain amount of time has been spent running the process and running system code on behalf of the process.
28	SIGWINCH	(Mostly unused these days.) A process used to be sent this signal when one of its windows was resized.
29	SIGIO	(Also known as SIGPOLL.) A process can arrange to have this signal sent to it when there is some input ready for it to process or an output channel has become ready for writing.
30	SIGPWR	A signal sent to processes by a power management service to indicate that power has switched to a short term emergency power supply. The process (especially long-running daemons) may care to shut down cleanlt before the emergency power fails.
31	SIGSYS	Unused.