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Get:24 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [45.2 kB]
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```

```
● @camcleve3 → /workspaces/c375-fa25-lab3 (main) $ mkdir -p build && cd build

  @ @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ cmake ...

 -- The C compiler identification is GNU 13.3.0
 -- Detecting C compiler ABI info
 -- Detecting C compiler ABI info - done
 -- Check for working C compiler: /usr/bin/cc - skipped
 — Detecting C compile features
 -- Detecting C compile features - done
 — Configuring done (0.2s)
 CMake Error at CMakeLists.txt:15 (add_executable):
    Cannot find source file:
      src/exec demo.c
   Tried extensions .c .C .c++ .cc .cpp .cxx .cu .mpp .m .M .mm .ixx .cppm
    .ccm .cxxm .c++m .h .hh .h++ .hm .hpp .hxx .in .txx .f .F .for .f77 .f90
    .f95 .f03 .hip .ispc
  CMake Error at CMakeLists.txt:15 (add_executable):
   No SOURCES given to target: exec demo
  CMake Generate step failed. Build files cannot be regenerated correctly.
• @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ cmake ...
  — Configuring done (0.0s)
  — Generating done (0.0s)
 -- Build files have been written to: /workspaces/c375-fa25-lab3/build

@ @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ cmake --build .

  [ 10%] Building C object CMakeFiles/fork demo.dir/src/fork demo.c.o
  [ 20%] Linking C executable fork demo
  /usr/bin/ld: /usr/lib/gcc/x86_64-linux-gnu/13/../../x86_64-linux-gnu/Scrt1
 .o: in function `_start':
(.text+0x1b): undefined reference to `main'
 collect2: error: ld returned 1 exit status
  gmake[2]: *** [CMakeFiles/fork_demo.dir/build.make:97: fork_demo] Error 1
  gmake[1]: *** [CMakeFiles/Makefile2:91: CMakeFiles/fork_demo.dir/all] Error 2
  gmake: *** [Makefile:91: all] Error 2
               /workspaces/c375_fa25_lah3/build (main) $ \B
```

```
@camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ cmake ...
 — Configuring done (0.0s)
 — Generating done (0.0s)
 -- Build files have been written to: /workspaces/c375-fa25-lab3/build
■ @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ cmake --build .
 [ 10%] Building C object CMakeFiles/fork_demo.dir/src/fork_demo.c.o
 [ 20%] Linking C executable fork demo
 [ 20%] Built target fork demo
 [ 30%] Building C object CMakeFiles/exec_demo.dir/src/exec_demo.c.o
 [ 40%] Linking C executable exec demo
 [ 40%] Built target exec_demo
 [ 50%] Building C object CMakeFiles/pipe_demo.dir/src/pipe_demo.c.o
 [ 60%] Linking C executable pipe demo
 [ 60%] Built target pipe_demo
 [ 70%] Building C object CMakeFiles/pipeline demo.dir/src/pipeline demo.c.
 [ 80%] Linking C executable pipeline_demo
 [ 80%] Built target pipeline_demo
 [ 90%] Building C object CMakeFiles/zombie_demo.dir/src/zombie_demo.c.o
 [100%] Linking C executable zombie demo
 [100%] Built target zombie_demo
⊃ @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $
• @camcleve3 → /workspaces/c375-fa25-lab3 (main) $ cd build
• @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ cmake ...
  — Configuring done (0.0s)
  -- Generating done (0.0s)
  -- Build files have been written to: /workspaces/c375-fa25-lab3/build
● @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ cmake --build .
  [ 10%] Building C object CMakeFiles/fork_demo.dir/src/fork_demo.c.o
  [ 20%] Linking C executable fork_demo
  [ 20%] Built target fork demo
  [ 30%] Building C object CMakeFiles/exec demo.dir/src/exec demo.c.o
  [ 40%] Linking C executable exec demo
  [ 40%] Built target exec_demo
  [ 60%] Built target pipe_demo
  [ 80%] Built target pipeline_demo
  [100%] Built target zombie_demo

    @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ ./fork demo
  [parent] created child PID=53864
  [child] PID=53864, PPID=53863
  [child] exiting with code 42
  [parent] child 53864 exited with status 42
○ @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $
```

```
@camcleve3 → /workspaces/c375-fa25-lab3 (main) $ cd build
 @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ cmake --build .
 [ 20%] Built target fork_demo
 [ 30%] Building C object CMakeFiles/exec demo.dir/src/exec demo.c.o
 [ 40%] Linking C executable exec_demo
 [ 40%] Built target exec demo
 [ 60%] Built target pipe demo
 [ 80%] Built target pipeline_demo
 [100%] Built target zombie_demo
 @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ ./exec_demo
 [child] about to exec ls -l
 total 116
 -rw-rw-rw- 1 codespace codespace 12463 Sep 9 01:37 CMakeCache.txt
 drwxrwxrwx+ 9 codespace codespace 4096 Sep 9 02:37 CMakeFiles
 -rw-rw-rw- 1 codespace codespace 10683 Sep 9 02:26 Makefile
-rw-rw-rw- 1 codespace codespace 1628 Sep 9 01:37 cmake_install.cmake
 -rwxrwxrwx 1 codespace codespace 16200 Sep 9 02:37 exec_demo
-rwxrwxrwx 1 codespace codespace 16360 Sep 9 02:26 fork_demo
-rwxrwxrwx 1 codespace codespace 15784 Sep 9 01:48 pipe_demo
-rwxrwxrwx 1 codespace codespace 15784 Sep 9 01:48 pipeline_demo
-rwxrwxrwx 1 codespace codespace 15784 Sep 9 01:48 zombie_demo
 [parent] child finished exec
 @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $
• @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ cmake --build .
  [ 20%] Built target fork_demo
  [ 40%] Built target exec_demo
  [ 50%] Building C object CMakeFiles/pipe_demo.dir/src/pipe_demo.c.o
  [ 60%] Linking C executable pipe demo
  [ 60%] Built target pipe demo
  [ 80%] Built target pipeline_demo
  [100%] Built target zombie_demo
■ @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ ./pipe_demo
○ @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $
@camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ cmake --build .
[ 20%] Built target fork_demo
[ 40%] Built target exec_demo
[ 60%] Built target pipe_demo
  70%] Building C object CMakeFiles/pipeline_demo.dir/src/pipeline_demo.c.o
[ 80%] Linking C executable pipeline demo
[ 80%] Built target pipeline_demo
[100%] Built target zombie_demo
@camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ ./pipeline_demo
CMakeCache.txt
cmake install.cmake
exec demo
@camcleve3 → /workspaces/c375-fa25-lab3/build (main) $
```

```
@camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ ps -l F S UID PID PPID C PRI NI ADDR SZ WCHAN TTY 4 S 1000 65863 2348 0 80 0 - 3984 do_wai pts/1 0 R 1000 67027 65863 0 80 0 - 2872 - pts/1 @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ ▮
| 80%| Linking C executable pipeline_demo | 80%| Built target pipeline_demo | 100%| Built target zombie_demo | 100%| Built target zombie_demo | 0camcleve3 - /workspaces/c375-fa25-lab3/build (main) $ ./pipeline_demo | CMakeCache.txt | cmake_install.cmake | avec_demo | cmakeCache.txt | cmake | avec_demo | cmakeCache.txt | cmakeCach
 conscients transfer conscients conscients and conscients are consciented as a conscient of the conscient of 

    @camcleve3 → /workspaces/c375-fa25-lab3 (main) $ mkdir -p challenges
    @camcleve3 → /workspaces/c375-fa25-lab3 (main) $ cd chaallenges

         bash: cd: chaallenges: No such file or directory
● @camcleve3 → /workspaces/c375-fa25-lab3 (main) $ cd challenges
■ @camcleve3 → /workspaces/c375-fa25-lab3/challenges (main) $ touch ch1_single_fork.c

    @@camcleve3 → /workspaces/c375-fa25-lab3/challenges (main) $ cmake --build .

         Error: could not load cache
• @camcleve3 → /workspaces/c375-fa25-lab3/challenges (main) $ cd ../
● @camcleve3 → /workspaces/c375-fa25-lab3 (main) $ cd build
• @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ cmake --build .
               Configuring done (0.0s)
         — Generating done (0.0s)
                     Build files have been written to: /workspaces/c375-fa25-lab3/build
         [ 16%] Built target fork_demo
                  33%] Built target exec_demo
                 50%] Built target pipe_demo
                  66%] Built target pipeline_demo
                  83%] Built target zombie_demo
                  91%] Building C object CMakeFiles/ch1_single_fork.dir/challenges/ch1_single_fork.c.o
        [100%] Linking C executable ch1_single_fork
[100%] Built target ch1_single_fork
@camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ ./ch1_single_fork
         Hello from child (PID=80729, PPID=80728)
         Parent: child exited with status 42
```

```
gmake: *** [Makefile:384: cmake_check_build_system]                           Error 1

■ @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ cmake --build.
   Configuring done (0.0s)
     Generating done (0.0s)
     Build files have been written to: /workspaces/c375-fa25-lab3/build
  [ 14%] Built target fork_demo
  [ 28%] Built target exec_demo
  [ 42%] Built target pipe_demo
  [ 57%] Built target pipeline_demo
  [ 71%] Built target zombie_demo
  [ 85%] Built target ch1_single_fork
  [ 92%] Building C object CMakeFiles/ch2_multi_fork.dir/challenges/ch2_multi_fork.c.o
  [100%] Linking C executable ch2_multi_fork
  [100%] Built target ch2_multi_fork
● @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ ./ch2_multi_fork 5
  Child 0 (PID=83982) running
  Child 1 (PID=83983) running
  Child 2 (PID=83984) running
  Child 3 (PID=83985) running
  Child 4 (PID=83986) running
  Parent: child 0 (PID=83982) exited with status 10
  Parent: child 1 (PID=83983) exited with status 11
  Parent: child 2 (PID=83984) exited with status 12
  Parent: child 3 (PID=83985) exited with status 13
  Parent: child 4 (PID=83986) exited with status 14
○ @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $
[IVV%] DUILL CALGEL CHZ_MULLI_TOLK
@camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ cmake --build .
— Configuring done (0.0s)
-- Generating done (0.0s)

    Build files have been written to: /workspaces/c375-fa25-lab3/build

[ 12%] Built target fork_demo
[ 25%] Built target exec demo
[ 37%] Built target pipe demo
[ 50%] Built target pipeline demo
[ 62%] Built target zombie_demo
[ 75%] Built target ch1_single_fork
[ 87%] Built target ch2_multi_fork
[ 93%] Building C object CMakeFiles/ch3_exec_ls.dir/challenges/ch3_exec_ls.c.o
[100%] Linking C executable ch3_exec_ls
[100%] Built target ch3_exec_ls
@camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ ./ch3_exec_ls
[child] running ls -la
total 184
drwxrwxrwx+ 3 codespace codespace 4096 Sep
                                               9 03:40 .
drwxrwxrwx+ 6 codespace root
                                     4096 Sep
                                               9 03:16 ..
-rw-rw-rw- 1 codespace codespace 12463 Sep
                                               9 01:37 CMakeCache.txt
drwxrwxrwx+ 12 codespace codespace 4096 Sep
                                               9 03:40 CMakeFiles
-rw-rw-rw-
             1 codespace codespace 15447 Sep
                                               9 03:40 Makefile
             1 codespace codespace 16344 Sep
                                               9 03:22 ch1_single_fork
-rwxrwxrwx
             1 codespace codespace 16408 Sep
                                               9 03:28 ch2_multi_fork
-rwxrwxrwx
            1 codespace codespace 16200 Sep
                                               9 03:40 ch3_exec_ls
-rwxrwxrwx
                                               9 01:37 cmake_install.cmake
             1 codespace codespace 1628 Sep
-rw-rw-rw-
            1 codespace codespace 16200 Sep 9 02:37 exec_demo
-rwxrwxrwx
            1 codespace codespace 16360 Sep 9 02:26 fork_demo
-rwxrwxrwx
             1 codespace codespace 16448 Sep 9 02:41 pipe_demo
-rwxrwxrwx
-rwxrwxrwx
             1 codespace codespace 16336 Sep 9 02:47 pipeline demo
             1 codespace codespace 16200 Sep 9 02:57 zombie_demo
-rwxrwxrwx
[parent] child finished
```

```
cp. cannot stat builtu/worker: No such rite or directo
@camcleve3 → /workspaces/c375-fa25-lab3/challenges (main) $ ./worker
worker: argc=1
worker: argv[0]=./worker
worker: MYVAR=(not set)
• @camcleve3 → /workspaces/c375-fa25-lab3 (main) $ cd build
■ @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ ./ch4_exec_worker
  worker: argc=3
  worker: argv[0]=./worker
  worker: argv[1]=foo
  worker: argv[2]=bar
  worker: MYVAR=hello
   [parent] child finished
$\displaysetq @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $
• @camcleve3 → /workspaces/c375-fa25-lab3 (main) $ cd build
● @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ cmake --build .
    4%] Building C object CMakeFiles/fork demo.dir/src/fork demo.c.o
    9%] Linking C executable fork_demo
    9%] Built target fork_demo
   13%] Building C object CMakeFiles/exec_demo.dir/src/exec_demo.c.o
18%] Linking C executable exec_demo
   18%] Built target exec_demo
   22%] Building C object CMakeFiles/pipe_demo.dir/src/pipe_demo.c.o
   27%] Linking C executable pipe_demo
   27%] Built target pipe_demo
   31%] Building C object CMakeFiles/pipeline_demo.dir/src/pipeline_demo.c.o 36%] Linking C executable pipeline_demo
   36%] Built target pipeline_demo
   40%] Building C object CMakeFiles/zombie_demo.dir/src/zombie_demo.c.o
   45%] Linking C executable zombie demo
   45%] Built target zombie_demo
   50%] Building C object CMakeFiles/ch1_single_fork.dir/challenges/ch1_single_fork.c.o
   54%] Linking C executable ch1_single_fork
   54%] Built target ch1_single_fork
   59%] Building C object CMakeFiles/ch2_multi_fork.dir/challenges/ch2_multi_fork.c.o
   63%] Linking C executable ch2_multi_fork
   63%] Built target ch2_multi_fork
   68%] Building C object CMakeFiles/ch3_exec_ls.dir/challenges/ch3_exec_ls.c.o
   72%] Linking C executable ch3_exec_ls
   72%] Built target ch3_exec_ls
77%] Building C object CMakeFiles/worker.dir/challenges/worker.c.o
81%] Linking C executable worker
   81%] Built target worker
   86%] Building C object CMakeFiles/ch4_exec_worker.dir/challenges/ch4_exec_worker.c.o
   90%] Linking C executable ch4 exec worker
   90%] Built target ch4_exec_worker
  [ 95%] Building C object CMakeFiles/ch5_exec_examples.dir/challenges/ch5_exec_examples.c.o [100%] Linking C executable ch5_exec_examples
  [100%] Built target ch5_exec_examples
 @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ ./ch5_exec_examples
 one
  one
```

```
@camcleve3 → /workspaces/c375-fa25-lab3/challenges (main) $ touch ch6_pipe_sum.c
 @camcleve3 → /workspaces/c375-fa25-lab3/challenges (main) $ cd ../
 @camcleve3 → /workspaces/c375-fa25-lab3 (main) $ cd build
 @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ cmake --build .
 [ 8%] Built target fork_demo
 [ 16%] Built target exec_demo
   25%] Built target pipe_demo
   33%] Built target pipeline_demo
   41%] Built target zombie_demo
   50%] Built target ch1_single_fork
   58%] Built target ch2_multi_fork
   66%] Built target ch3_exec_ls
   75%] Built target worker
83%] Built target ch4_exec_worker
91%] Built target ch5_exec_examples
   95%] Building C object CMakeFiles/ch6_pipe_sum.dir/challenges/ch6_pipe_sum.c.o
 [100%] Linking C executable ch6_pipe_sum
 [100%] Built target ch6_pipe_sum
 @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ ./ch6_pipe_sum
 Child: sum = 55
 @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $
■ @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ ./ch7_pipeline "\.c$"
 exec_demo.c
  fork_demo.c
 pipe_demo.c
 pipeline_demo.c
 zombie demo.c
■ @camcleve3 → /workspaces/c375-fa25-lab3/challenges (main) $ touch ch8_wait_nonblock.c
● @camcleve3 → /workspaces/c375-fa25-lab3/challenges (main) $ cd ../challenges
● @camcleve3 → /workspaces/c375-fa25-lab3/challenges (main) $ cd ../build
● @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ cmake --build .
    7%] Built target fork_demo
    14%] Built target exec_demo
21%] Built target pipe_demo
28%] Built target pipeline_demo
    35%] Built target zombie_demo
    42%] Built target ch1_single_fork
    50%] Built target ch2_multi_fork
    57%] Built target ch3_exec_ls
    64%] Built target worker
    71%] Built target ch4_exec_worker
78%] Built target ch5_exec_examples
85%] Built target ch6_pipe_sum
    92%] Built target ch7_pipeline
    96%] Building C object CMakeFiles/ch8_wait_nonblock.dir/challenges/ch8_wait_nonblock.c.o
   [100%] Linking C executable ch8_wait_nonblock
  [100%] Built target ch8_wait_nonblock
● @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ ./ch8_wait_nonblock
   [child 0] done
   [parent] child 0 (PID=20874) exited with status 10
   [child 1] done
   [parent] child 1 (PID=20875) exited with status 11
   [child 2] done
  [parent] child 2 (PID=20876) exited with status 12
$\@camcleve3 → /workspaces/c375-fa25-lab3/build (main) $
```

```
■ @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ cmake --build .
     6%] Built target fork_demo
    13%] Built target exec_demo
  [ 20%] Built target pipe_demo
  [ 26%] Built target pipeline_demo
  [ 33%] Built target zombie_demo
  [ 40%] Built target ch1_single_fork
  [ 46%] Built target ch2 multi fork
  [ 53%] Built target ch3_exec_ls
  [ 60%] Built target worker
  [ 66%] Built target ch4_exec_worker
  [ 73%] Built target ch5_exec_examples [ 80%] Built target ch6_pipe_sum
  [ 86%] Built target ch7_pipeline
  [ 93%] Built target ch8_wait_nonblock
  [ 96%] Building C object CMakeFiles/ch9_zombie.dir/challenges/ch9_zombie.c.o
  [100%] Linking C executable ch9_zombie
  [100%] Built target ch9_zombie
• @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ ./ch9_zombie
  [parent] sleeping, child should be zombie (check with 'ps aux | grep Z')
  [child] exiting immediately
  [parent] collected child
🍫 @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $
      (№) 0 € Build ⊕
 @camcleve3 → /workspaces/c375-fa25-lab3/build
@camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ ./ch9_zombie
[parent] sleeping, child should be zombie (check with 'ps aux | grep Z'
                                                   c | grep Z
TIME COMMAND
0:00 [ch9_zombie] <defunct>
0:00 grep —-color=auto Z
c | grep Z
TIME COMMAND
0:00 grep —-color=auto Z
 )
[child] exiting immediately
[parent] collected child
@camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ []
```

```
■ @camcleve3 → /workspaces/c375-fa25-lab3/challenges (main) $ touch ch10_pool.c

    @camcleve3 → /workspaces/c375-fa25-lab3/challenges (main) $ cd ../build
    @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ cmake --build .

       6%] Built target fork_demo
12%] Built target exec_demo
18%] Built target pipe_demo
25%] Built target pipeline_demo
       23%] Built target pipeline_demo
31%] Built target zombie_demo
37%] Built target ch1_single_fork
43%] Built target ch2_multi_fork
50%] Built target ch3_exec_ls
56%] Built target worker
62%] Built target ch4_exec_worker
68%] Built target ch5_exec_examples
75%] Built target ch6_pipe_sum
        75%] Built target ch6_pipe_sum
       81%] Built target cho_pipe_sum
81%] Built target ch8_pipeline
87%] Built target ch8_wait_nonblock
93%] Built target ch9_zombie
        96%] Building C object CMakeFiles/ch10_pool.dir/challenges/ch10_pool.c.o
     [100%] Linking C executable ch10_pool
     [100%] Built target ch10_pool
     @camcleve3 → /workspaces/c375-fa25-lab3/build (main) $ ./ch10_pool 3 file1 file2 file3 file4 file5
     [worker] PID=37450 working on file1
[worker] PID=37451 working on file2
[worker] PID=37452 working on file3
[worker] PID=37450 finished file1
    [worker] PID=37451 finished file2
[parent] Worker PID=37450 exited
[worker] PID=37452 finished file3
     [parent] Worker PID=37451 exited
     [parent] Worker PID=37452 exited
[worker] PID=37480 working on file4
[worker] PID=37481 working on file5
     [worker] PID=37480 finished file4
    [worker] PID=37481 finished file5
[parent] Worker PID=37480 exited
[parent] Worker PID=37481 exited
♦@camcleve3 → /workspaces/c375-fa25-lab3/build (main) $
```