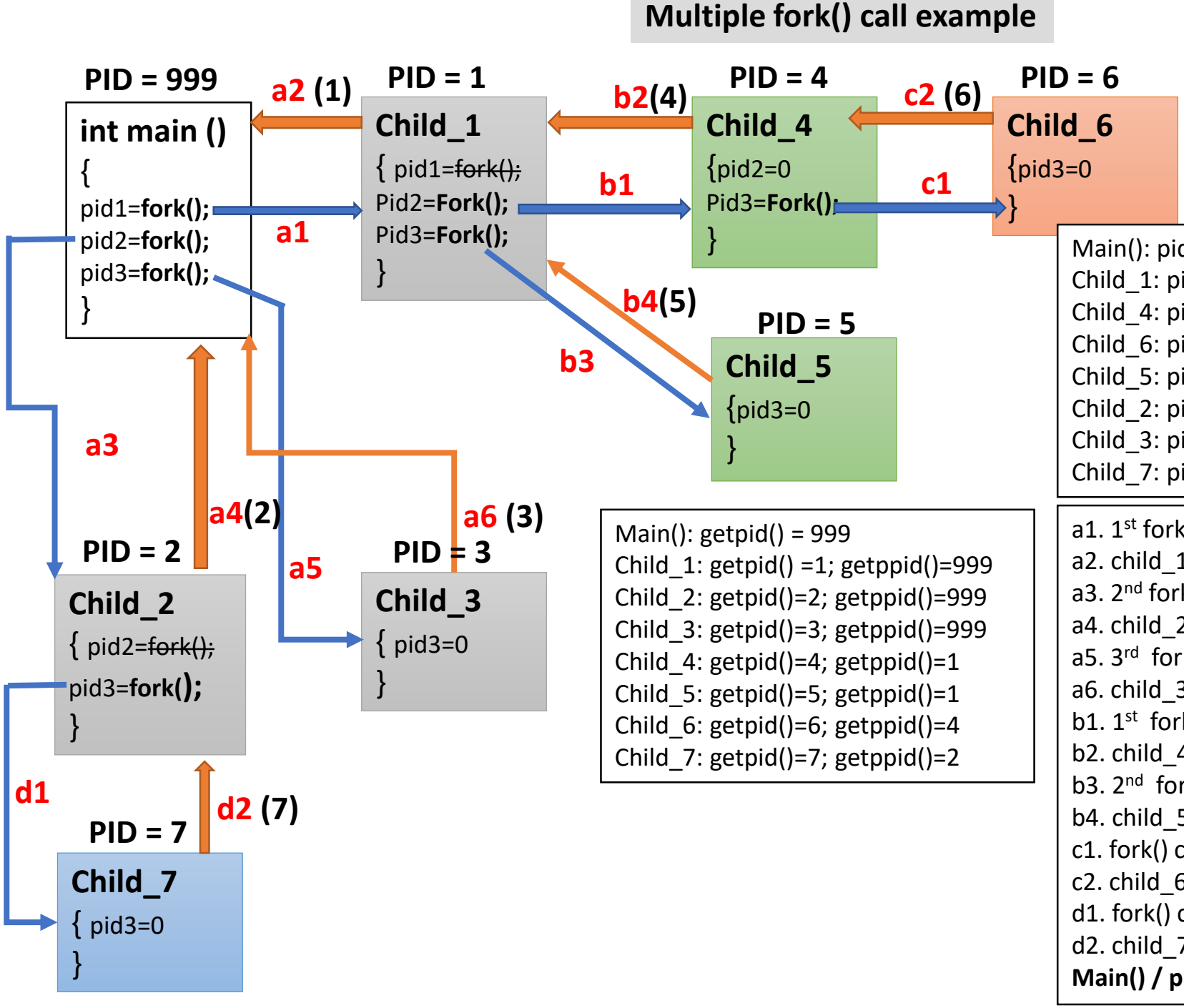
Multiple fork() call example



Main(): getpid() = 999
Child_1: getpid() =1; getppid()=999
Child_2: getpid()=2; getppid()=999
Child_3: getpid()=3; getppid()=999
Child_4: getpid()=4; getppid()=1
Child_5: getpid()=5; getppid()=1
Child_6: getpid()=6; getppid()=4
Child_7: getpid()=7; getppid()=2

Main(): pid1 = 1; pid2=2; pid3=3
Child_1: pid1=0; pid2 = 4; pid3=5
Child_4: pid2=0; pid3 = 6
Child_6: pid3=0
Child_5: pid3=0
Child_2: pid2=0, pid3 = 7
Child_3: pid3=0
Child_7: pid3=0

a1. 1st fork() called from parent and child_1 is created
a2. child_1 returns its PID (1) to its parent (main)
a3. 2nd fork() called from parent and child_2 is created
a4. child_2 returns its PID (2) to its parent (main)
a5. 3rd fork() called from parent and child_3 is created
a6. child_3 returns its PID (3) to its parent (main)
b1. 1st fork() called from child_1 and child_4 is created
b2. child_4 returns its PID (4) to its parent (child_1)
b3. 2nd fork() called from child_1 and child_5 is created
b4. child_5 returns its PID (5) to its parent (child_1)
c1. fork() called from child_4 and child_6 is created
c2. child_6 returns its PID (6) to its parent (child_4)
d1. fork() called from child_2 and child_7 is created
d2. child_7 returns its PID (7) to its parent (child_2)
Main() / parent process has created a total of 7 child processes