% gcc217 testforkexecwait.c -o testforkexecwait

```
int main(int argc, char *argv[])
   pid t iPid;
   for (;;)
   { fflush(NULL);
      iPid = fork();
      if (iPid == 0)
      { char *apcArgv[2];
         apcArgv[0] = "date";
         apcArgv[1] = NULL;
         execvp("date", apcArgv);
         perror(argv[0]);
         exit(EXIT FAILURE);
      wait(NULL);
      sleep(3);
```

```
int main(int argc, char *argv[])
  pid t iPid;
  for (;;)
   { fflush(NULL);
      iPid = fork();
      if (iPid == 0)
      { char *apcArgv[2];
         apcArgv[0] = "date";
         apcArgv[1] = NULL;
         execvp("date", apcArgv);
         perror(argv[0]);
         exit(EXIT FAILURE);
      wait(NULL);
      sleep(3);
```

```
int main(int argc, char *argv[])
   pid t iPid;
   for (;;)
      fflush (NULL);
      iPid = fork();
      if (iPid == 0)
      { char *apcArgv[2];
         apcArgv[0] = "date";
         apcArgv[1] = NULL;
         execvp("date", apcArgv);
         perror(argv[0]);
         exit(EXIT FAILURE);
      wait(NULL);
      sleep(3);
```

```
int main(int argc, char *argv[])
   pid t iPid;
   for (;;)
      fflush (NULL);
      iPid = fork();
      if (iPid == 0)
      { char *apcArgv[2];
         apcArgv[0] = "date";
         apcArgv[1] = NULL;
         execvp("date", apcArgv);
         perror(argv[0]);
         exit(EXIT FAILURE);
      wait(NULL);
      sleep(3);
```

```
int main(int argc, char *argv[])
                                                  int main(int argc, char *argv[])
   pid t iPid;
                                                     pid t iPid;
   for (;;)
                                                     for (;;)
      fflush (NULL);
                                                     { fflush(NULL);
      iPid = fork();
                                                        iPid = fork();
      if (iPid == 0)
                                                        if (iPid == 0)
      { char *apcArgv[2];
                                                        { char *apcArgv[2];
         apcArgv[0] = "date";
                                                           apcArgv[0] = "date";
                                          concurrent
         apcArgv[1] = NULL;
                                                           apcArgv[1] = NULL;
         execvp("date", apcArgv);
                                                           execvp("date", apcArgv);
         perror(argv[0]);
                                                           perror(argv[0]);
         exit(EXIT FAILURE);
                                                           exit(EXIT FAILURE);
      wait(NULL);
                                                        wait(NULL);
      sleep(3);
                                                        sleep(3);
```

```
int main(int argc, char *argv[])
                                                  int main(int argc, char *argv[])
   pid t iPid;
                                                     pid t iPid;
                            not 0
   for (;;)
                                                     for (;;)
      fflush (NULL);
                                                     { fflush(NULL);
      iPid = fork();
                                                        iPid = fork();
      if (iPid == 0)
                                                        if (iPid == 0)
      { char *apcArqv[2];
                                                        { char *apcArgv[2];
         apcArgv[0] = "date";
                                                           apcArgv[0] = "date";
                                          concurrent
         apcArgv[1] = NULL;
                                                           apcArgv[1] = NULL;
         execvp("date", apcArgv);
                                                           execvp("date", apcArgv);
         perror(argv[0]);
                                                           perror(argv[0]);
         exit(EXIT FAILURE);
                                                           exit(EXIT FAILURE);
      wait(NULL);
                                                        wait(NULL);
      sleep(3);
                                                        sleep(3);
```

```
int main(int argc, char *argv[])
                                                  int main(int argc, char *argv[])
   pid t iPid;
                                                     pid t iPid;
                            not 0
   for (;;)
                                                     for (;;)
      fflush (NULL);
                                                     { fflush(NULL);
      iPid = fork();
                                                        iPid = fork();
      if (iPid == 0)
                                                        if (iPid == 0)
      { char *apcArqv[2];
                                                        { char *apcArgv[2];
         apcArgv[0] = "date";
                                                           apcArgv[0] = "date";
                                          concurrent
         apcArgv[1] = NULL;
                                                           apcArgv[1] = NULL;
         execvp("date", apcArgv);
                                                           execvp("date", apcArgv);
         perror(argv[0]);
                                                           perror(argv[0]);
         exit(EXIT FAILURE);
                                                           exit(EXIT FAILURE);
      wait(NULL);
                                                        wait(NULL);
      sleep(3);
                                                        sleep(3);
```

```
int main(int argc, char *argv[])
                                                  int main(int argc, char *argv[])
   pid t iPid;
                                                     pid t iPid;
                            not 0
   for (;;)
                                                     for (;;)
      fflush (NULL);
                                                     { fflush(NULL);
      iPid = fork();
                                                        iPid = fork();
      if (iPid == 0)
                                                        if (iPid == 0)
      { char *apcArqv[2];
                                                        { char *apcArgv[2];
         apcArgv[0] = "date";
                                                           apcArgv[0] = "date";
                                          concurrent
         apcArgv[1] = NULL;
                                                           apcArgv[1] = NULL;
         execvp("date", apcArgv);
                                                           execvp("date", apcArgv);
         perror(argv[0]);
                                                           perror(argv[0]);
         exit(EXIT FAILURE);
                                                           exit(EXIT FAILURE);
      wait(NULL);
                                                        wait(NULL);
      sleep(3);
                                                        sleep(3);
```

```
int main(int argc, char *argv[])
                                                  int main(int argc, char *argv[])
   pid t iPid;
                                                     pid t iPid;
                            not 0
   for (;;)
                                                     for (;;)
      fflush (NULL);
                                                       fflush (NULL);
                                                        iPid = fork();
      iPid = fork();
      if (iPid == 0)
                                                        if (iPid == 0)
      { char *apcArqv[2];
                                                        { char *apcArgv[2];
         apcArgv[0] = "date";
                                                           apcArgv[0] = "date";
                                          concurrent
         apcArgv[1] = NULL;
                                                           apcArgv[1] = NULL;
         execvp("date", apcArgv);
                                                           execvp("date", apcArgv);
         perror(argv[0]);
                                                           perror(argv[0]);
         exit(EXIT FAILURE);
                                                           exit(EXIT FAILURE);
      wait(NULL);
                                                        wait(NULL);
      sleep(3);
                                                        sleep(3);
```

```
int main(int argc, char *argv[])
                                                  int main(int argc, char *argv[])
   pid t iPid;
                                                     pid t iPid;
                            not 0
   for (;;)
                                                     for (;;)
      fflush (NULL);
                                                        fflush (NULL);
                                                        iPid = fork();
      iPid = fork();
      if (iPid == 0)
                                                        if (iPid == 0)
      { char *apcArgv[2];
                                                        { char *apcArgv[2];
         apcArgv[0] = "date";
                                                           apcArgv[0] = "date";
                                          concurrent
         apcArgv[1] = NULL;
                                                           apcArgv[1] = NULL;
         execvp("date", apcArgv);
                                                           execvp("date", apcArgv);
         perror(argv[0]);
                                                           perror(argv[0]);
         exit(EXIT FAILURE);
                                                           exit(EXIT FAILURE);
      wait(NULL);
                                                        wait(NULL);
      sleep(3);
                                                        sleep(3);
```

```
int main(int argc, char *argv[])
                                                  int main(int argc, char *argv[])
   pid t iPid;
                                                     pid t iPid;
                            not 0
   for (;;)
                                                     for (;;)
      fflush (NULL);
                                                       fflush (MULL);
                                                        iPid = fork();
      iPid = fork();
      if (iPid == 0)
                                                        if (iPid == 0)
      { char *apcArgv[2];
                                                        { char *apcArgv[2];
         apcArgv[0] = "date";
                                                           apcArgv[0] = "date";
                                          concurrent
         apcArgv[1] = NULL;
                                                           apcArgv[1] = NULL;
         execvp("date", apcArgv);
                                                           execvp("date", apcArgv);
         perror(argv[0]);
                                                           perror(argv[0]);
         exit(EXIT FAILURE);
                                                           exit(EXIT FAILURE);
      wait(NULL);
                                                        wait(NULL);
      sleep(3);
                                                        sleep(3);
```

```
int main(int argc, char *argv[])
                                                  int main(int argc, char *argv[])
   pid t iPid;
                                                     pid t iPid;
                            not 0
   for (;;)
                                                     for (;;)
      fflush (NULL);
                                                       fflush (NULL);
                                                        iPid = fork();
      iPid = fork();
      if (iPid == 0)
                                                        if (iPid == 0)
      { char *apcArgv[2];
                                                        { char *apcArgv[2];
         apcArgv[0] = "date";
                                                           apcArgv[0] = "date";
                                          concurrent
         apcArgv[1] = NULL;
                                                           apcArgv[1] = NULL;
         execvp("date", apcArgv);
                                                           execvp("date", apcArgv);
         perror(argv[0]);
                                                           perror(argv[0]);
         exit(EXIT FAILURE);
                                                           exit(EXIT FAILURE);
      wait(NULL);
                                                        wait(NULL);
      sleep(3);
                                                        sleep(3);
```

```
int main(int argc, char *argv[])
                                                  int main(int argc, char *argv[])
   pid t iPid;
                                                     pid t iPid;
                            not 0
   for (;;)
                                                     for (;;)
      fflush (NULL);
                                                       fflush (NULL);
                                                        iPid = fork();
      iPid = fork();
      if (iPid == 0)
                                                        if (iPid == 0)
      { char *apcArgv[2];
                                                        { char *apcArgv[2];
         apcArgv[0] = "date";
                                                           apcArgv[0] = "date";
                                          concurrent
         apcArgv[1] = NULL;
                                                           apcArgv[1] = NULL;
         execvp("date", apcArgv);
                                                           execvp("date", apcArgv);
         perror(argv[0]);
                                                           perror(argv[0]);
         exit(EXIT FAILURE);
                                                           exit(EXIT FAILURE);
      wait(NULL);
                                                        wait(NULL);
      sleep(3);
                                                        sleep(3);
```

```
int main(int argc, char *argv[])
                                                  int main(int argc, char *argv[])
   pid t iPid;
                                                     pid t iPid;
                            not 0
   for (;;)
                                                     for (;;)
      fflush (NULL);
                                                       fflush (NULL);
                                                        iPid = fork();
      iPid = fork();
      if (iPid == 0)
                                                        if (iPid == 0)
      { char *apcArqv[2];
                                                        { char *apcArgv[2];
         apcArgv[0] = "date";
                                                           apcArgv[0] = "date";
                                          concurrent
         apcArgv[1] = NULL;
                                                           apcArgv[1] = NULL;
         execvp("date", apcArgv);
                                                           execvp("date", apcArgv);
         perror(argv[0]);
                                                           perror(argv[0]);
         exit(EXIT FAILURE);
                                                           exit(EXIT FAILURE);
      wait(NULL);
                                                        wait(NULL);
      sleep(3);
                                                        sleep(3);
```

```
int main(int argc, char *argv[])
                                                  int main(int argc, char *argv[])
   pid t iPid;
                            not 0
   for (;;)
      fflush (NULL);
      iPid = fork();
      if (iPid == 0)
      { char *apcArgv[2];
                                                               Date
         apcArgv[0] = "date";
                                                             program
                                          concurrent
         apcArgv[1] = NULL;
         execvp("date", apcArgv);
         perror(argv[0]);
         exit(EXIT FAILURE);
      wait(NULL);
      sleep(3);
                                                     return 0;
```

% ./testforkexecwait

```
int main(int argc, char *argv[])
                                                  int main(int argc, char *argv[])
   pid t iPid;
                            not 0
   for (;;)
      fflush (NULL);
      iPid = fork();
      if (iPid == 0)
      { char *apcArgv[2];
                                                               Date
         apcArgv[0] = "date";
                                                             program
                                          concurrent
         apcArgv[1] = NULL;
         execvp("date", apcArgv);
         perror(argv[0]);
         exit(EXIT FAILURE);
      wait(NULL);
      sleep(3);
                                                     return 0;
```

Writes the current date/time

```
t main(int argc, char *argv[])
int main(int argc, char *argv[])
   pid t iPid;
                            not 0
   for (;;)
      fflush (NULL);
      iPid = fork();
      if (iPid == 0)
      { char *apcArgv[2];
         apcArgv[0] = "date";
                                                             progr
                                           concurrent
         apcArgv[1] = NULL;
         execvp("date", apcArgv);
         perror(argv[0]);
         exit(EXIT FAILURE);
      wait(NULL);
      sleep(3);
                                                      eturn 0;
```

```
int main(int argc, char *argv[])
  pid t iPid;
                           not 0
   for (;;)
      fflush (NULL);
      iPid = fork();
      if (iPid == 0)
      { char *apcArgv[2];
         apcArgv[0] = "date";
         apcArgv[1] = NULL;
         execvp("date", apcArgv);
         perror(argv[0]);
         exit(EXIT FAILURE);
      wait(NULL);
      sleep(3);
```

```
int main(int argc, char *argv[])
   pid t iPid;
   for (;;)
   { fflush(NULL);
      iPid = fork();
      if (iPid == 0)
      { char *apcArgv[2];
         apcArgv[0] = "date";
         apcArgv[1] = NULL;
         execvp("date", apcArgv);
         perror(argv[0]);
         exit(EXIT FAILURE);
      wait(NULL);
      sleep(3);
```

```
int main(int argc, char *argv[])
   pid t iPid;
   for (;;)
      fflush (NULL);
      iPid = fork();
      if (iPid == 0)
      { char *apcArgv[2];
         apcArgv[0] = "date";
         apcArgv[1] = NULL;
         execvp("date", apcArgv);
         perror(argv[0]);
         exit(EXIT FAILURE);
      wait(NULL);
      sleep(3);
```

```
int main(int argc, char *argv[])
                                                  int main(int argc, char *argv[])
   pid t iPid;
                                                     pid t iPid;
   for (;;)
                                                     for (;;)
      fflush (NULL);
                                                     { fflush(NULL);
      iPid = fork();
                                                        iPid = fork();
      if (iPid == 0)
                                                        if (iPid == 0)
      { char *apcArgv[2];
                                                        { char *apcArgv[2];
         apcArgv[0] = "date";
                                                           apcArgv[0] = "date";
                                          concurrent
         apcArgv[1] = NULL;
                                                           apcArgv[1] = NULL;
         execvp("date", apcArgv);
                                                           execvp("date", apcArgv);
         perror(argv[0]);
                                                           perror(argv[0]);
         exit(EXIT FAILURE);
                                                           exit(EXIT FAILURE);
      wait(NULL);
                                                        wait(NULL);
      sleep(3);
                                                        sleep(3);
```

```
int main(int argc, char *argv[])
                                                  int main(int argc, char *argv[])
   pid t iPid;
                                                     pid t iPid;
                            not 0
   for (;;)
                                                     for (;;)
      fflush (NULL);
                                                     { fflush(NULL);
      iPid = fork();
                                                        iPid = fork();
      if (iPid == 0)
                                                        if (iPid == 0)
      { char *apcArqv[2];
                                                        { char *apcArgv[2];
         apcArgv[0] = "date";
                                                           apcArgv[0] = "date";
                                          concurrent
         apcArgv[1] = NULL;
                                                           apcArgv[1] = NULL;
         execvp("date", apcArgv);
                                                           execvp("date", apcArgv);
         perror(argv[0]);
                                                           perror(argv[0]);
         exit(EXIT FAILURE);
                                                           exit(EXIT FAILURE);
      wait(NULL);
                                                        wait(NULL);
      sleep(3);
                                                        sleep(3);
```

```
int main(int argc, char *argv[])
                                                  int main(int argc, char *argv[])
   pid t iPid;
                                                     pid t iPid;
                            not 0
   for (;;)
                                                     for (;;)
      fflush (NULL);
                                                     { fflush(NULL);
      iPid = fork();
                                                        iPid = fork();
      if (iPid == 0)
                                                        if (iPid == 0)
      { char *apcArqv[2];
                                                        { char *apcArgv[2];
         apcArgv[0] = "date";
                                                           apcArgv[0] = "date";
                                          concurrent
         apcArgv[1] = NULL;
                                                           apcArgv[1] = NULL;
         execvp("date", apcArgv);
                                                           execvp("date", apcArgv);
         perror(argv[0]);
                                                           perror(argv[0]);
         exit(EXIT FAILURE);
                                                           exit(EXIT FAILURE);
      wait(NULL);
                                                        wait(NULL);
      sleep(3);
                                                        sleep(3);
```

```
int main(int argc, char *argv[])
                                                  int main(int argc, char *argv[])
   pid t iPid;
                                                     pid t iPid;
                            not 0
   for (;;)
                                                     for (;;)
      fflush (NULL);
                                                     { fflush(NULL);
      iPid = fork();
                                                        iPid = fork();
      if (iPid == 0)
                                                        if (iPid == 0)
      { char *apcArgv[2];
                                                        { char *apcArgv[2];
         apcArgv[0] = "date";
                                                           apcArgv[0] = "date";
                                          concurrent
         apcArgv[1] = NULL;
                                                           apcArgv[1] = NULL;
         execvp("date", apcArgv);
                                                           execvp("date", apcArgv);
         perror(argv[0]);
                                                           perror(argv[0]);
         exit(EXIT FAILURE);
                                                           exit(EXIT FAILURE);
      wait(NULL);
                                                        wait(NULL);
      sleep(3);
                                                        sleep(3);
```

```
int main(int argc, char *argv[])
                                                  int main(int argc, char *argv[])
   pid t iPid;
                                                     pid t iPid;
                            not 0
   for (;;)
                                                     for (;;)
      fflush (NULL);
                                                       fflush (NULL);
                                                        iPid = fork();
      iPid = fork();
      if (iPid == 0)
                                                        if (iPid == 0)
      { char *apcArqv[2];
                                                        { char *apcArgv[2];
         apcArgv[0] = "date";
                                                           apcArgv[0] = "date";
                                          concurrent
         apcArgv[1] = NULL;
                                                           apcArgv[1] = NULL;
         execvp("date", apcArgv);
                                                           execvp("date", apcArgv);
         perror(argv[0]);
                                                           perror(argv[0]);
         exit(EXIT FAILURE);
                                                           exit(EXIT FAILURE);
      wait(NULL);
                                                        wait(NULL);
      sleep(3);
                                                        sleep(3);
```

```
int main(int argc, char *argv[])
                                                  int main(int argc, char *argv[])
   pid t iPid;
                                                     pid t iPid;
                            not 0
   for (;;)
                                                     for (;;)
      fflush (NULL);
                                                        fflush (NULL);
                                                        iPid = fork();
      iPid = fork();
      if (iPid == 0)
                                                        if (iPid == 0)
      { char *apcArgv[2];
                                                        { char *apcArgv[2];
         apcArgv[0] = "date";
                                                           apcArgv[0] = "date";
                                          concurrent
         apcArgv[1] = NULL;
                                                           apcArgv[1] = NULL;
         execvp("date", apcArgv);
                                                           execvp("date", apcArgv);
         perror(argv[0]);
                                                           perror(argv[0]);
         exit(EXIT FAILURE);
                                                           exit(EXIT FAILURE);
      wait(NULL);
                                                        wait(NULL);
      sleep(3);
                                                        sleep(3);
```

```
int main(int argc, char *argv[])
                                                  int main(int argc, char *argv[])
   pid t iPid;
                                                     pid t iPid;
                            not 0
   for (;;)
                                                     for (;;)
      fflush (NULL);
                                                       fflush (MULL);
                                                        iPid = fork();
      iPid = fork();
      if (iPid == 0)
                                                        if (iPid == 0)
      { char *apcArqv[2];
                                                        { char *apcArgv[2];
         apcArgv[0] = "date";
                                                           apcArgv[0] = "date";
                                          concurrent
         apcArgv[1] = NULL;
                                                           apcArgv[1] = NULL;
         execvp("date", apcArgv);
                                                           execvp("date", apcArgv);
         perror(argv[0]);
                                                           perror(argv[0]);
         exit(EXIT FAILURE);
                                                           exit(EXIT FAILURE);
      wait(NULL);
                                                        wait(NULL);
      sleep(3);
                                                        sleep(3);
```

```
int main(int argc, char *argv[])
                                                  int main(int argc, char *argv[])
   pid t iPid;
                                                     pid t iPid;
                            not 0
   for (;;)
                                                     for (;;)
      fflush (NULL);
                                                        fflush (MULL);
                                                        iPid = fork();
      iPid = fork();
      if (iPid == 0)
                                                        if (iPid == 0)
      { char *apcArqv[2];
                                                        { char *apcArgv[2];
         apcArgv[0] = "date";
                                                           apcArgv[0] = "date";
                                          concurrent
         apcArgv[1] = NULL;
                                                           apcArgv[1] = NULL;
         execvp("date", apcArgv);
                                                           execvp("date", apcArgv);
         perror(argv[0]);
                                                           perror(argv[0]);
         exit(EXIT FAILURE);
                                                           exit(EXIT FAILURE);
      wait(NULL);
                                                        wait(NULL);
      sleep(3);
                                                        sleep(3);
```

```
int main(int argc, char *argv[])
                                                  int main(int argc, char *argv[])
   pid t iPid;
                                                     pid t iPid;
                            not 0
   for (;;)
                                                     for (;;)
      fflush (NULL);
                                                       fflush (NULL);
                                                        iPid = fork();
      iPid = fork();
      if (iPid == 0)
                                                        if (iPid == 0)
      { char *apcArqv[2];
                                                        { char *apcArgv[2];
         apcArgv[0] = "date";
                                                           apcArgv[0] = "date";
                                          concurrent
         apcArgv[1] = NULL;
                                                           apcArgv[1] = NULL;
         execvp("date", apcArgv);
                                                           execvp("date", apcArgv);
         perror(argv[0]);
                                                           perror(argv[0]);
         exit(EXIT FAILURE);
                                                           exit(EXIT FAILURE);
      wait(NULL);
                                                        wait(NULL);
      sleep(3);
                                                        sleep(3);
```

```
int main(int argc, char *argv[])
                                                  int main(int argc, char *argv[])
   pid t iPid;
                                                     pid t iPid;
                            not 0
   for (;;)
                                                     for (;;)
      fflush (NULL);
                                                       fflush (NULL);
                                                        iPid = fork();
      iPid = fork();
      if (iPid == 0)
                                                        if (iPid == 0)
      { char *apcArgv[2];
                                                        { char *apcArgv[2];
         apcArgv[0] = "date";
                                                           apcArgv[0] = "date";
                                          concurrent
         apcArgv[1] = NULL;
                                                           apcArgv[1] = NULL;
         execvp("date", apcArgv);
                                                           execvp("date", apcArgv);
         perror(argv[0]);
                                                           perror(argv[0]);
         exit(EXIT FAILURE);
                                                           exit(EXIT FAILURE);
      wait(NULL);
                                                        wait(NULL);
      sleep(3);
                                                        sleep(3);
```

```
int main(int argc, char *argv[])
                                                  int main(int argc, char *argv[])
   pid t iPid;
                            not 0
   for (;;)
      fflush (NULL);
      iPid = fork();
      if (iPid == 0)
      { char *apcArgv[2];
                                                               Date
         apcArgv[0] = "date";
                                                             program
                                          concurrent
         apcArgv[1] = NULL;
         execvp("date", apcArgv);
         perror(argv[0]);
         exit(EXIT FAILURE);
      wait(NULL);
      sleep(3);
                                                     return 0;
```

```
int main(int argc, char *argv[])
                                                  int main(int argc, char *argv[])
   pid t iPid;
                            not 0
   for (;;)
      fflush (NULL);
      iPid = fork();
      if (iPid == 0)
      { char *apcArgv[2];
                                                               Date
         apcArgv[0] = "date";
                                                             program
                                          concurrent
         apcArgv[1] = NULL;
         execvp("date", apcArgv);
         perror(argv[0]);
         exit(EXIT FAILURE);
      wait(NULL);
      sleep(3);
                                                     return 0;
```

```
t main(int argc, char *argv[])
int main(int argc, char *argv[])
   pid t iPid;
                            not 0
   for (;;)
      fflush (NULL);
      iPid = fork();
      if (iPid == 0)
      { char *apcArgv[2];
         apcArgv[0] = "date";
                                                             progr
                                           concurrent
         apcArgv[1] = NULL;
         execvp("date", apcArgv);
         perror(argv[0]);
         exit(EXIT FAILURE);
      wait(NULL);
      sleep(3);
                                                      eturn 0;
```

% ./testforkexecwait

```
int main(int argc, char *argv[])
   pid t iPid;
                           not 0
   for (;;)
      fflush (NULL);
      iPid = fork();
      if (iPid == 0)
      { char *apcArgv[2];
         apcArgv[0] = "date";
         apcArgv[1] = NULL;
         execvp("date", apcArgv);
         perror(argv[0]);
         exit(EXIT FAILURE);
      wait(NULL);
      sleep(3);
```

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