
Subject: [BUG][cryo] Create file on restart ?

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cryo does not (cannot ?) recreate files if the application created a file before checkpoint and the file does not exist at the time of restart.

Note that the 'flags' field in '/proc/\$pid/fdinfo/\$fd' will not have the O_CREAT (or O_TRUNC, O_EXCL, O_NOCTTY) flags. These are cleared in `__dentry_open()`.

At the time of restart, is there a way for cryo to know that the file must be created ?

To reproduce:

- run following program,
- checkpoint after the first printf
- rm /tmp/foo1
- restart # fails to open file during restart

```
#include <stdio.h>
#include <unistd.h>
#include <errno.h>
#include <sys/fcntl.h>
```

```
main()
{
    int fd;
    int i;
    char *buf = "abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ";
```

```
    fd = open("/tmp/foo1", O_RDWR|O_CREAT|O_TRUNC, 0666);
```

```
    if (fd < 0) {
        perror("open");
        exit(1);
    }
    printf("%d: Opened '/tmp/foo1', fd %d\n", getpid(), fd);
```

```
    for (i = 0; i < strlen(buf); i++) {
        if (write(fd, &buf[i], 1) < 0) {
            printf("Error %d writing %c to file, i %d\n",
                errno, buf[i], i);
            exit(1);
        }
        printf("%d: i %d, wrote %c\n", getpid(), i, buf[i]);
```

```
sleep(2);  
}  
}
```

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