

Ceph - Feature #659

direct io unit test

12/17/2010 04:15 PM - Sage Weil

Status: Resolved	% Done: 0%
Priority: Normal	Spent time: 0.00 hour
Assignee:	
Category:	
Target version: v0.25	
Source:	Reviewed:
Tags:	Affected Versions:
Backport:	Pull request ID:
Description	
For qa/workunits:	
Test directio reads and writes where	
- the file offset is 512-byte and not page aligned	
- the buffer offset is 512-byte and not page aligned	
and verify that the correct offset was read/written.	
The test program should return a success or error code, and some useful output to identify which case(s) work or don't work.	
The tcloud guys sent this, fwiw:	
<pre>#include <unistd.h> #include <stdio.h> #include <stdlib.h> #include <errno.h> #include <fcntl.h> #include <string.h> int main(int argc, char *argv[]) { int i; int n = 0; void *buf = 0; int fd = open(argv[1], O_RDONLY O_DIRECT); if (fd < 0) { printf("file open error %d\n", errno); return -1; } n = lseek(fd, 0, SEEK_END); printf("seek %d\n", n); n = lseek(fd, 0, SEEK_CUR); printf("seek %d\n", n); n = lseek(fd, 6656, SEEK_SET); printf("seek %d\n", n); n = posix_memalign(&buf, 512, 8192); printf("posix_memalign ret %d buf %p\n", n, buf); memset(buf, 0, n); n = read(fd, buf, 8192); printf("read %d bytes (err %d)\n", n, errno); char* buf1 = (char*)buf; for (i = 0; i < n; ++i) printf("%c", buf1[i]); printf("\n"); free(buf); }</pre>	

```
close(fd);  
return 0;  
}
```

History

#1 - 01/20/2011 06:22 PM - Colin McCabe

- Status changed from New to Resolved

I added direct_io_test for testing this feature. [f1d7af97f3a30d2ecdd0e48f804d8347d319f3eb](#), [42709d1bff91bf7f692ca124520e6782c5278811](#), [6a20b83a6393b122279b638ee5345fe58e87de3a](#).