

Re: CloudTieringFS

Sent: **Wednesday, July 17, 2019 9:26 PM**

From: **Sergey Morozov sergey@morozov.ch**

To: **steve bov bigbov99@gmail.com**

Dear Steve,

I think there is a problem in the version of the libs3 library you are using. If you are using a modern Linux distribution, you most probably have `libs3-4` installed. That is the libs3 library of major version 4. When I was writing this code I used `libs3-2`, that is libs3 of version 2.

I plan to adopt the code to the newer version of libs3, but I cannot give you any time estimate. However, there is still an option to install the `libs3-2`. I am providing links to the corresponding *.deb and *.rpm packages for deb-based and rpm-based distributions correspondingly below.

- DEB-based distributions: <https://pkgs.org/download/libs3-2>

- RPM-based distribution: [https://centos.pkgs.org/7/epel-x86_64/libs3-devel-2.0-](https://centos.pkgs.org/7/epel-x86_64/libs3-devel-2.0-0.5.20161104gita052a00.el7.x86_64.rpm.html)

[0.5.20161104gita052a00.el7.x86_64.rpm.html](https://centos.pkgs.org/7/epel-x86_64/libs3-2.0-0.5.20161104gita052a00.el7.x86_64.rpm.html) and [https://centos.pkgs.org/7/epel-x86_64/libs3-2.0-](https://centos.pkgs.org/7/epel-x86_64/libs3-2.0-0.5.20161104gita052a00.el7.x86_64.rpm.html)

I have tested RPM packages with openSUSE 15.1. They work even though they were built for CentOS 7. I suppose the same would apply for DEB-based distributions. Do not forget to remove both newer versions of libs3 and libs3-devel packages from your system before installing the versions I provided.

You can check the version of libs3 installed by:

...

```
$> ls -l /usr/lib64/libs3.so*
```

```
lrwxrwxrwx 1 root root 10 Dec 2 2016 /usr/lib64/libs3.so -> libs3.so.2
```

```
lrwxrwxrwx 1 root root 12 Dec 2 2016 /usr/lib64/libs3.so.2 -> libs3.so.2.0
```

```
-rwxr-xr-x 1 root root 90952 Dec 2 2016 /usr/lib64/libs3.so.2.0
```

...

Feel free to contact me if you still have questions but lets communicate via GitHub issues in corresponding repository: <https://github.com/ser94mor/CloudTieringFS>.

Yours sincerely,
Sergey Morozov

----- Original Message -----

On Tuesday, July 16, 2019 8:53 PM, steve bov <bigbov99@gmail.com> wrote:

Hi,

I just found your project but have the following error.

```
gcc-8 -g -c -Wall -pthread -std=c11 -O3 -linc -o bin/app/s3_ops.o src/app/s3_ops.c
```

```
src/app/s3_ops.c: In function 's3_init_globals':
```

```
src/app/s3_ops.c:184:25: error: 'S3BucketContext' {aka 'struct S3BucketContext'} has no member named 'securityToken'
```

```
    g_bucket_context.securityToken = NULL;
```

```
    ^
```

```
src/app/s3_ops.c: In function 's3_bucket_exists':
```

```
src/app/s3_ops.c:212:48: warning: passing argument 7 of 'S3_test_bucket' makes integer from pointer without a cast [-Wint-conversion]
```

```
g_bucket_context.bucketName,
```

```
In file included from src/app/s3_ops.c:27:
/usr/include/libs3.h:1501:25: note: expected 'int' but argument is of type 'const char *'
int locationConstraintReturnSize,
```

```
src/app/s3_ops.c:213:32: warning: passing argument 8 of 'S3_test_bucket' makes pointer from integer
without a cast [-Wint-conversion]
sizeof(location_constraint),
```

```
In file included from src/app/s3_ops.c:27:
/usr/include/libs3.h:1502:27: note: expected 'char *' but argument is of type 'long unsigned int'
char *locationConstraintReturn,
```

```
src/app/s3_ops.c:214:32: warning: passing argument 9 of 'S3_test_bucket' from incompatible pointer type [-
Wincompatible-pointer-types]
location_constraint,
```

```
In file included from src/app/s3_ops.c:27:
/usr/include/libs3.h:1503:39: note: expected 'S3RequestContext *' {aka 'struct S3RequestContext *'} but
argument is of type 'char *'
S3RequestContext *requestContext,
```

```
src/app/s3_ops.c:206:17: error: too many arguments to function 'S3_test_bucket'
S3_test_bucket(g_bucket_context.protocol,
```

```
In file included from src/app/s3_ops.c:27:
/usr/include/libs3.h:1498:6: note: declared here
void S3_test_bucket(S3Protocol protocol, S3UriStyle uriStyle,
```

```
src/app/s3_ops.c: In function 's3_create_bucket':
src/app/s3_ops.c:245:50: error: incompatible type for argument 6 of 'S3_create_bucket'
g_bucket_context.bucketName,
```

```
In file included from src/app/s3_ops.c:27:
/usr/include/libs3.h:1531:59: note: expected 'S3CannedAcl' {aka 'enum <anonymous>'} but argument is of
type 'const char *'
const char *bucketName, S3CannedAcl cannedAcl,
```

```
src/app/s3_ops.c:240:17: error: too many arguments to function 'S3_create_bucket'
S3_create_bucket(g_bucket_context.protocol,
```

```
In file included from src/app/s3_ops.c:27:
/usr/include/libs3.h:1529:6: note: declared here
void S3_create_bucket(S3Protocol protocol, const char *accessKeyId,
```

```
make: *** [GNUmakefile:107: bin/app/s3_ops.o] Error 1
steve@steve:~/CloudTieringFS$ make
gcc-8 -g -c -Wall -pthread -std=c11 -O3 -linc -o bin/app/s3_ops.o src/app/s3_ops.c
src/app/s3_ops.c: In function 's3_init_globals':
src/app/s3_ops.c:184:25: error: 'S3BucketContext' {aka 'struct S3BucketContext'} has no member named
'securityToken'
```

```
g_bucket_context.securityToken = NULL;
```

```
src/app/s3_ops.c: In function 's3_bucket_exists':
src/app/s3_ops.c:212:48: warning: passing argument 7 of 'S3_test_bucket' makes integer from pointer
without a cast [-Wint-conversion]
```

```
g_bucket_context.bucketName,
```

```
In file included from src/app/s3_ops.c:27:
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```

int locationConstraintReturnSize,
-----
src/app/s3_ops.c:213:32: warning: passing argument 8 of 'S3_test_bucket' makes pointer from integer
without a cast [-Wint-conversion]
    sizeof(location_constraint),
    ^-----
In file included from src/app/s3_ops.c:27:
/usr/include/libs3.h:1502:27: note: expected 'char *' but argument is of type 'long unsigned int'
    char *locationConstraintReturn,
    ^-----
src/app/s3_ops.c:214:32: warning: passing argument 9 of 'S3_test_bucket' from incompatible pointer type [-
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    ^-----
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/usr/include/libs3.h:1503:39: note: expected 'S3RequestContext *' {aka 'struct S3RequestContext *'} but
argument is of type 'char *'
    S3RequestContext *requestContext,
    ^-----
src/app/s3_ops.c:206:17: error: too many arguments to function 'S3_test_bucket'
    S3_test_bucket(g_bucket_context.protocol,
    ^-----
In file included from src/app/s3_ops.c:27:
/usr/include/libs3.h:1498:6: note: declared here
void S3_test_bucket(S3Protocol protocol, S3UriStyle uriStyle,
    ^-----
src/app/s3_ops.c: In function 's3_create_bucket':
src/app/s3_ops.c:245:50: error: incompatible type for argument 6 of 'S3_create_bucket'
    g_bucket_context.bucketName,
    ^-----
In file included from src/app/s3_ops.c:27:
/usr/include/libs3.h:1531:59: note: expected 'S3CannedAcl' {aka 'enum <anonymous>'} but argument is of
type 'const char *'
    const char *bucketName, S3CannedAcl cannedAcl,
    ^-----
src/app/s3_ops.c:240:17: error: too many arguments to function 'S3_create_bucket'
    S3_create_bucket(g_bucket_context.protocol,
    ^-----
In file included from src/app/s3_ops.c:27:
/usr/include/libs3.h:1529:6: note: declared here
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    ^-----
make: *** [GNUmakefile:107: bin/app/s3_ops.o] Error 1
steve@steve:~/CloudTieringFS$
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gcc-8 -g -c -Wall -pthread -std=c11 -O3 -linc -o bin/app/s3_ops.o src/app/s3_ops.c
src/app/s3_ops.c: In function 's3_init_globals':
src/app/s3_ops.c:184:25: error: 'S3BucketContext' {aka 'struct S3BucketContext'} has no member named
'securityToken'
    g_bucket_context.securityToken = NULL;
    ^
src/app/s3_ops.c: In function 's3_bucket_exists':
src/app/s3_ops.c:212:48: warning: passing argument 7 of 'S3_test_bucket' makes integer from pointer
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/usr/include/libs3.h:1501:25: note: expected 'int' but argument is of type 'const char *'

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```

int locationConstraintReturnSize,
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src/app/s3_ops.c:213:32: warning: passing argument 8 of 'S3_test_bucket' makes pointer from integer
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/usr/include/libs3.h:1502:27: note: expected 'char *' but argument is of type 'long unsigned int'
char *locationConstraintReturn,
-----^-----
src/app/s3_ops.c:214:32: warning: passing argument 9 of 'S3_test_bucket' from incompatible pointer type [-
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    location_constraint,
    ^-----
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argument is of type 'char *'
    S3RequestContext *requestContext,
    ^-----
src/app/s3_ops.c:206:17: error: too many arguments to function 'S3_test_bucket'
    S3_test_bucket(g_bucket_context.protocol,
    ^-----
In file included from src/app/s3_ops.c:27:
/usr/include/libs3.h:1498:6: note: declared here
void S3_test_bucket(S3Protocol protocol, S3UriStyle uriStyle,
    ^-----
src/app/s3_ops.c: In function 's3_create_bucket':
src/app/s3_ops.c:245:50: error: incompatible type for argument 6 of 'S3_create_bucket'
    g_bucket_context.bucketName,
    ^-----
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/usr/include/libs3.h:1531:59: note: expected 'S3CannedAcl' {aka 'enum <anonymous>'} but argument is of
type 'const char *'
    const char *bucketName, S3CannedAcl cannedAcl,
    ^-----
src/app/s3_ops.c:240:17: error: too many arguments to function 'S3_create_bucket'
    S3_create_bucket(g_bucket_context.protocol,
    ^-----
In file included from src/app/s3_ops.c:27:
/usr/include/libs3.h:1529:6: note: declared here
void S3_create_bucket(S3Protocol protocol, const char *accessKeyId,
    ^-----
make: *** [GNUmakefile:107: bin/app/s3_ops.o] Error 1

```