Subject: Bug in Core/Stream.cpp
Posted by steffen on Wed, 15 May 2013 09:55:05 GMT
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Hi,

Upp source from SVN rev. 6071

We where trying to use a Md5Stream object and found it gave different results with these two examples, both are reading a small text file and calculating the Md5 hash:
Wrong result:

```
FileIn f_in( aFileName );
Md5Stream md5;
md5.Put( f_in );
mMD5_Hash = md5.FinishString();
```

Correct result:

```
String fdata_1 = LoadFile( aFileName ) ;
Md5Stream md5_s ;
md5_s.Put( fdata_1 ) ;
String md5_hash1 =  md5_s.FinishString();
```

The error is in the Put function in Stream.cpp line 458:

```
Put(buffer.operator const byte *(), click);
```

The second parameter "click" is the buffer size, not the size of contents in the buffer. It should be "n", so the corrected function end up like this:

```
void  Stream::Put(Stream& s, int64 size, dword click) {
 Buffer<byte> buffer(click);
 while(size) {
  dword n = s.Get(buffer, (int)min<int64>(click, size));
  if(n == 0)
   break;
  Put(buffer.operator const byte *(), n);
  size -= n;
 }
}
```

Regards,
Steffen

Subject: Re: Bug in Core/Stream.cpp
Posted by steffen on Thu, 16 May 2013 08:46:07 GMT
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Hi again,

Here is another example showing the same error in a simple file copy situation.

```
FileIn in(GetDataFile("TestFile.txt"));
FileOut out(GetDataFile("Copy Of TestFile.txt"));
out.Put(in);
out.Flush();
LOG("Original filesize: " << in.GetSize());
LOG("Size of Copy: " << out.GetSize());
```

Log output:

Original filesize: 128
Size of Copy: 4096

It works if I exchange the second parameter click with n in Stream.cpp:458

Regards,
Steffen

File Attachments

1) StreamError.7z, downloaded 396 times

Subject: Re: Bug in Core/Stream.cpp
Posted by mirek on Sun, 26 May 2013 14:49:57 GMT
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Ops, nasty bug. Thank you, fixed in trunk...

Mirek