

IllegalBlockSizeException when .jar compiled into .NET dll

Source: <http://coding.derkeiler.com/Archive/Java/comp.lang.java.programmer/2007-10/msg02476.html>

- *From:* javadev <swethasivaram@xxxxxxxxxx>
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Hello all

I have the following piece of code as part of my .jar file which is then compiled into a .NET dll using IKVM. The code runs fine when run as a jar but on using the .NET dll I receive an `IllegalBlockSizeException`. Apparently the conversion into the dll is causing the error, but I can't figure out what I need to do work around this problem. Any help will be greatly appreciated.

```
Cipher ecipher = Cipher.getInstance("DES");
byte[] raw = "SOMESTR".getBytes();
byte[] result = new byte[8];
int resultIx = 1;
int bitCount = 0;

for(int i = 0; i < 56; i++)
{
    boolean bit = (in[6 - i/8]&(1 << (i%8))) > 0;

    if(bit)
    {
        result[7 - resultIx/8] |= (1 << (resultIx % 8)) & 0xFF;
        bitCount++;
    }
    if((i + 1) % 7 == 0)
    {
        if(bitCount % 2 == 0)
            result[7 - resultIx/8] |= 1;
        resultIx++;
        bitCount = 0;
    }
    resultIx++;
}
```

```
SecretKey mySpec = new SecretKeySpec(result, "DES");
ecipher.init(Cipher.ENCRYPT_MODE, mySpec);
```

```
byte[] utf8 = "encryptThis".getBytes("UTF8");
```

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```
byte[] enc = ecipher.doFinal(utf8); // IllegalBlockSizeException here
```