

## Memory Leak Testing

OCR Versions:

- ABBYY FineReader Engine 11 (build 11.1.16.94)
  - On hold as our licence has expired.

## ABBYY Tests

In project UnitTests.

### FREngine::OpenBitmap

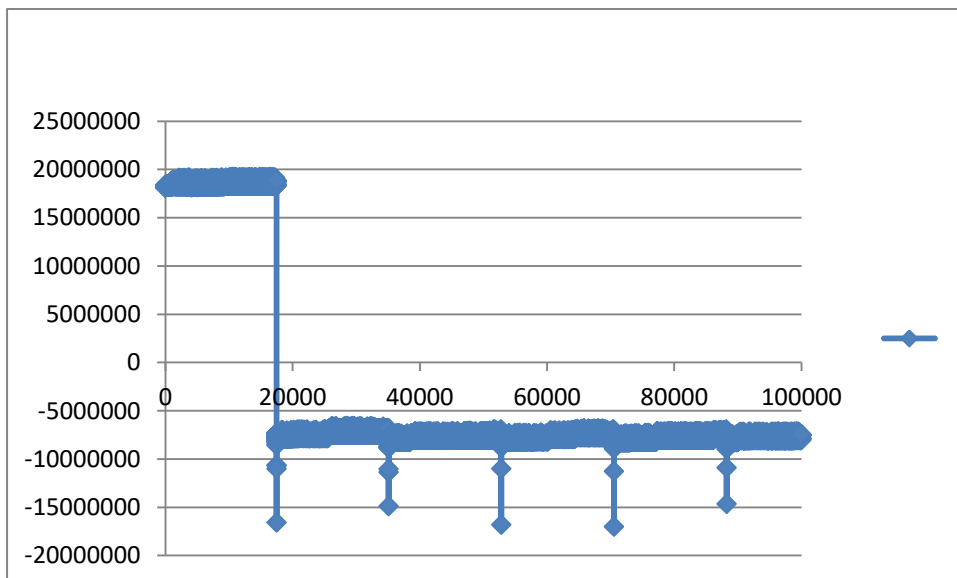
#### 100,000 Iterations

Repeatedly open a bitmap to obtain an image document and then close the image document:

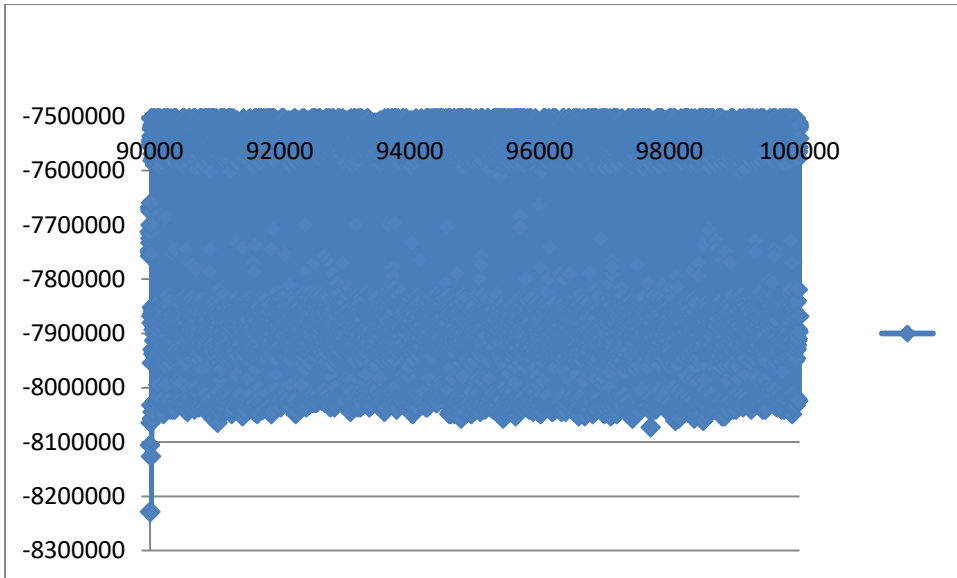
```
FREngine::IImageDocumentPtr frImageDocumentPtr = iEnginePtr->OpenBitmap((long)hBitmap, bitmap.bmWidth, bitmap.bmHeight, nullptr);  
if (frImageDocumentPtr == NULL)  
{  
    throw L"Unable to open the supplied bitmap";  
}  
frImageDocumentPtr = nullptr;
```

The total memory is in bytes and relative to the starting value.

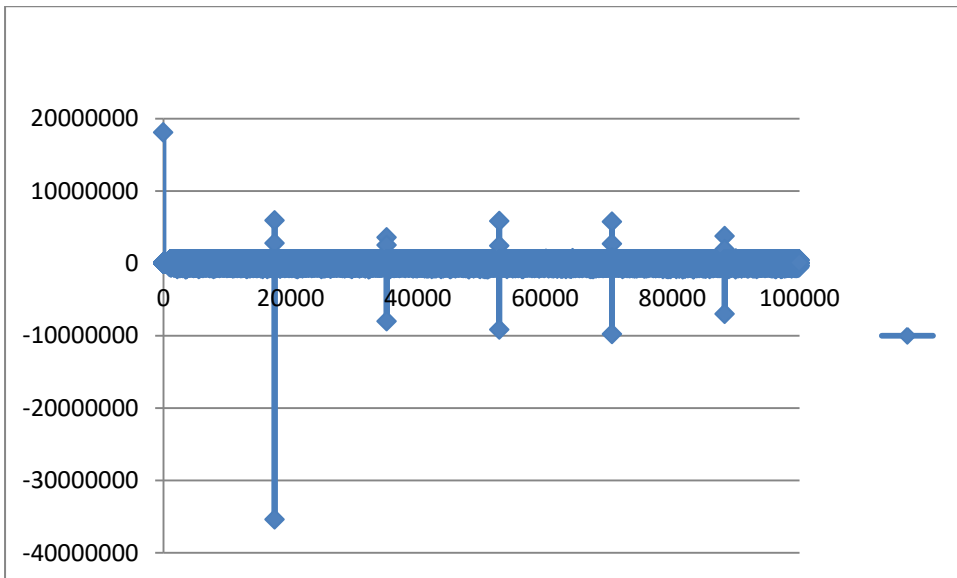
The total memory over 100,000 iterations is as follows:



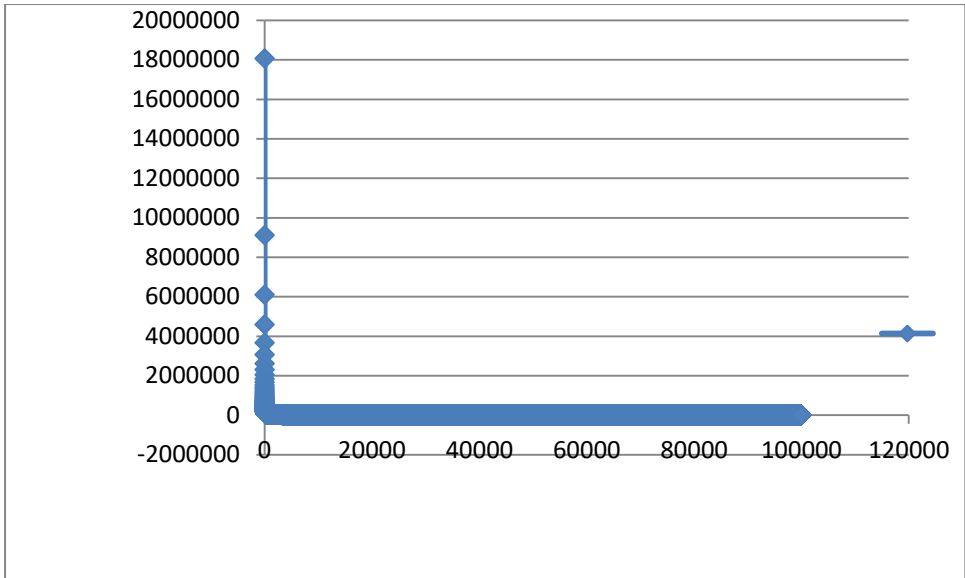
The total memory during the last 10,000 iterations is as follows:



The change in total memory at each iteration relative to the previous one is as follows:



The average total memory change per iteration – total memory divided by number of iterations – is as follows:



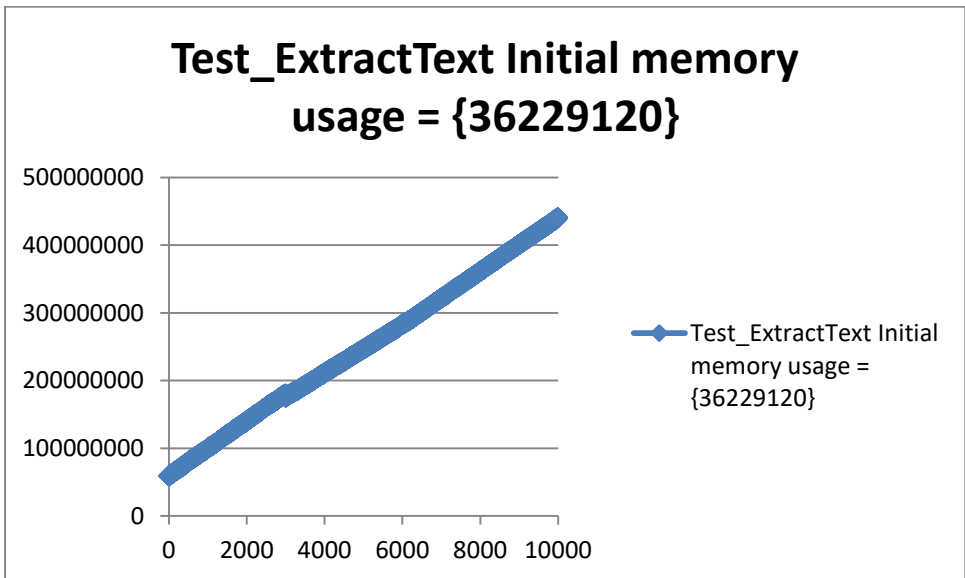
**Conclusion**

The memory usage stabilises over time and appears not to be a leak.

**AbbyyAdapter::ExtractText: FAIL**

**10,000 Iterations**

Total memory change against iteration:



**100,000 Iterations**

Crashed after 32,000 iterations.

**Conclusion**

Memory is leaking.

The image is about 0.5 MB in size. The leak per iteration is about 50 KB.