

OSP semestrální práce

Bug 75240 - Improve coding style in
bitmap3.cxx

LibreOffice

- Kancelářský balík
- Šířený pod licencí LGPL
- Multiplatformní
- C++, Java, Python

Bug 75240 - Improve coding style in bitmap3.hxx

- Použití nepřehledného programovacího stylu
- Potřeba refactoringu

Explicitní správa paměti

```
BitmapReadAccess* pAcc = AcquireReadAccess();
Bitmap         aOutBmp( Size( nDstW, nDstH ), 24 );
BitmapWriteAccess* pWAcc = aOutBmp.AcquireWriteAccess();
-
- long*          pMapIX = new long[ nDstW ];
- long*          pMapIY = new long[ nDstH ];
- long*          pMapFX = new long[ nDstW ];
- long*          pMapFY = new long[ nDstH ];
+
+ boost::scoped_array<long> pMapIX(new long[ nDstW ]);
+ boost::scoped_array<long> pMapIY(new long[ nDstH ]);
+ boost::scoped_array<long> pMapFX(new long[ nDstW ]);
+ boost::scoped_array<long> pMapFY(new long[ nDstH ]);
long           nX, nY, nXDst, nYDst;;
double         fTemp;
long           nTemp , nTempX, nTempY, nTempFX, nTempFY;
```

Nepřehledné výrazy

- `pMapFX[nX] = (long) ((fTemp - (pMapIX[nX] = MinMax((long)
fTemp, 0, nTemp))) * 128.);`
- + `pMapIX[nX] = MinMax((long) fTemp, 0, nTemp);`
- + `pMapFX[nX] = (long) ((fTemp - pMapIX) * 128.);`

Využívat proměnné uvnitř bloků

```
- long      nX, nY, nXDst, nYDst;;
- double    fTemp;
- long      nTemp , nTempX, nTempY, nTempFX, nTempFY;
- sal_uInt8 cR0, cG0, cB0, cR1, cG1, cB1;
- long      nStartX = 0 , nStartY = 0;
- long      nEndX = nDstW - 1L;
- long      nEndY = nDstH - 1L;
- long      nMax = 1 << 7L;
+ sal_uInt8 cR0, cG0, cB0, cR1, cG1, cB1;
+ long nStartX = 0 , nStartY = 0;
+ long nEndX = nDstW - 1L;
+ long nEndY = nDstH - 1L;
+ long nMax = 1 << 7L;
-----
-     for( nX = 0L, nTempX = nW - 1L, nTemp = nW - 2L; nX < nDstW; nX++ )
+     for( long nX = 0L, nTempX = nW - 1L, nTemp = nW - 2L; nX < nDstW; nX++ )
{
-         fTemp = nX * fRevScaleX;
+         double fTemp = nX * fRevScaleX;
...
}
```