Lightning Talks!

LIBOCON 2019

ALMERIA | 13\textsuperscript{th} Sept. 2019
Cleaning up Calc OpenCL Code
Reproducible Builds
Authenticating against gerrit using TDF's OAuth IdP
Quo Vadis Writer
Memory Management
<noelgrandin> is there some kind of design for what should supercede SwModify/SwClient?

<mst__> Sweet5hark1 said he would personally carry every message from the core to the layout frames

Carrying Messages
<noelgrandin> is there some kind of design for what should supercede SwModify/SwClient

mst__> Sweet5hark1 said he would personally carry every message from the core to the layout frames UNO

Carrying Messages
git grep calbck
sw/source/core/unocore/
shows nothing on master.

SwClient-free unocore
<table>
<thead>
<tr>
<th>Files</th>
<th>Comments Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>sw/inc/frmfmt.hxx</td>
<td>16</td>
</tr>
<tr>
<td>sw/inc/unodraw.hxx</td>
<td>11</td>
</tr>
<tr>
<td>sw/source/core/layout/atfrm.hxx</td>
<td>1</td>
</tr>
<tr>
<td>sw/source/core/unocore/unodraw.hxx</td>
<td>123</td>
</tr>
<tr>
<td>+91, -60</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Author</th>
<th>Commit Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Björn Michaelsen</td>
<td>Jan 27, 2019 9:39 PM</td>
</tr>
<tr>
<td>Björn Michaelsen</td>
<td>May 7, 2019 12:03 AM</td>
</tr>
<tr>
<td>Björn Michaelsen</td>
<td>Apr 7, 2019 5:45 AM</td>
</tr>
<tr>
<td>Björn Michaelsen</td>
<td>Jun 6, 2019 4:51 AM</td>
</tr>
<tr>
<td>Björn Michaelsen</td>
<td>Jul 7, 2019 5:37 AM</td>
</tr>
</tbody>
</table>

**Patch Set 1:**
- Build queued: https://ci.libreoffice.org/job/gerrit_master/24231/
- Build failed: https://ci.libreoffice.org/job/gerrit_master/24231/: FAILURE error "no need to explicitly init an instance of..."
- Published edit on patch set 1.

**Patch Set 2:**
- Build queued: https://ci.libreoffice.org/job/gerrit_master/24279/
- Build failed: https://ci.libreoffice.org/job/gerrit_master/24279/: FAILURE the cppunit test CppunitTest_sw_oxl..."
- Published edit on patch set 2.

**Patch Set 3:**
- Build queued: https://ci.libreoffice.org/job/gerrit_master/24323/
- Build failed: https://ci.libreoffice.org/job/gerrit_master/24323/: FAILURE the cppunit test CppunitTest_sw_oxml..."

**Patch Set 4:**
- Build queued: https://ci.libreoffice.org/job/gerrit_master/27253/
- Build failed: https://ci.libreoffice.org/job/gerrit_master/27253/: ABORTED
- Patch Set 3 was rebased

**Patch Set 5:**
- Build queued: https://ci.libreoffice.org/job/gerrit_master/29474/
- Build failed: https://ci.libreoffice.org/job/gerrit_master/29474/: ABORTED
- Patch Set 4 was rebased

**Patch Set 6:**
- Build queued: https://ci.libreoffice.org/job/gerrit_master/30100/
- Build failed: https://ci.libreoffice.org/job/gerrit_master/30100/: FAILURE the cppunit test CppunitTest_sw_oxml..."
make page bookkeep the SwXShapes

- and remove SwClient/Modify between SwXShape and Page

kill SwXShape SwClient

this completely removes calbck.hxx from sw/source/core/unocore -- may it never return.

Merged on Sept. 7th
$ git grep callck.hxx |grep -o ^sw/.*/.*/|sort|uniq -c|sort -n

<table>
<thead>
<tr>
<th>Directory</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>sw/qa/core/</td>
<td>1</td>
</tr>
<tr>
<td>sw/source/core/attr/</td>
<td>1</td>
</tr>
<tr>
<td>sw/source/core/draw/</td>
<td>1</td>
</tr>
<tr>
<td>sw/source/core/tox/</td>
<td>1</td>
</tr>
<tr>
<td>sw/source/core/view/</td>
<td>1</td>
</tr>
<tr>
<td>sw/source/filter/html/</td>
<td>1</td>
</tr>
<tr>
<td>sw/source/filter/ww8/</td>
<td>1</td>
</tr>
<tr>
<td>sw/source/filter/xml/</td>
<td>1</td>
</tr>
<tr>
<td>sw/source/uibase/app/</td>
<td>1</td>
</tr>
<tr>
<td>sw/source/uibase/dochdl/</td>
<td>1</td>
</tr>
<tr>
<td>sw/source/uibase/docvw/</td>
<td>1</td>
</tr>
<tr>
<td>sw/source/uibase/shells/</td>
<td>1</td>
</tr>
<tr>
<td>sw/source/uibase/uno/</td>
<td>1</td>
</tr>
<tr>
<td>sw/source/ui/fldui/</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Directory</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>sw/source/core/crsr/</td>
<td>2</td>
</tr>
<tr>
<td>sw/source/core/frmedt/</td>
<td>2</td>
</tr>
<tr>
<td>sw/source/core/table/</td>
<td>2</td>
</tr>
<tr>
<td>sw/source/core/undo/</td>
<td>2</td>
</tr>
<tr>
<td>sw/source/uibase/inc/</td>
<td>3</td>
</tr>
<tr>
<td>sw/source/core/access/</td>
<td>3</td>
</tr>
<tr>
<td>sw/source/core/edit/</td>
<td>3</td>
</tr>
<tr>
<td>sw/source/core/txtnode/</td>
<td>3</td>
</tr>
<tr>
<td>sw/inc/pch/</td>
<td>4</td>
</tr>
<tr>
<td>sw/source/core/unocore/</td>
<td>4</td>
</tr>
<tr>
<td>sw/source/core/inc/</td>
<td>5</td>
</tr>
<tr>
<td>sw/source/core/txtnode/</td>
<td>5</td>
</tr>
<tr>
<td>sw/source/core/docnode/</td>
<td>6</td>
</tr>
<tr>
<td>sw/source/core/docnode/</td>
<td>11</td>
</tr>
<tr>
<td>sw/source/core/fields/</td>
<td>14</td>
</tr>
<tr>
<td>sw/source/core/doc/</td>
<td>14</td>
</tr>
<tr>
<td>sw/source/core/layout/</td>
<td>14</td>
</tr>
</tbody>
</table>
20y+ old Basic
Agenda

- Adv. Basic libraries
- LibO Basic Primititives
- Better Basic libraries
- What else? ☕️
Advanced Basic libraries

- Not documented
  - org. is discouraging documentation
- Few comments
  - Unordered macros
- Mixed up content:
  - Arrays, text, numbers, API,
    Calc, Impress, Writer, or else?
- Advanced really?
  - Access2Base is an exception
- No conventions
- No guidance
Basic (not so) Primititives

- Structured:
  - Arrays, Calc, IO, Logging, Math, Strings, Writer, ..
- Commented
- Promoting Dev† standards
- Pedagogic incentive
- Decorrelating UI/non UI
- Tests driven
Better Basic libraries

• Legacy Basic Libraries
  – As Is

• Add Advanced ones
  – Structured organisation
  – Commented & documented

• such as..
x-language ‘ScriptForge’

• Multiplatforms
  – linux, mac, win
  – finger pointed exceptions e.g. COM/OLE
• Multilingual
• Procedural coding for standard types: text, arrays, ...
• OOP coding for objects: files, dialogs, streams
• Error Handling foundation
• Impléd in Basic 1 Python when relevant (xml, json, ..)
• Best Practices driven
• Linked to local/online help
• Focused on robustness
volunteers

Jean-François Nifenecker
Jean-Pierre Ledure
Alain Romedenne

Get involved!
How to make a bad version of LibreOffice

The French way
Please make Cloph go out, we don’t want him to get an heart attack!

Don’t try to do that at your office, that’s really risky!
What is the MIMO LibreOffice version

- Special version of LibreOffice version for french administration
- Really a special version...
- Made without certified developers
• Let’s talk about MIMO 6.1
• Which version is it?
  – It’s not 6.1.6...
  – It’s not 6.1.5...
  – It’s called 6.1.5 or 6.1.6
  – It’s based on libreoffice6-1 branch.
• More than 100 commits missing to be a REAL 6.1.6.
• Few commits missing to be a 6.1.5
Let's count with MIMO

- What is after 6?
- 7? No! It's 11!
- Where are MIMO sources for other version?
- M1 to M5 missing, M6 to M11 also missing...
- Making a version is not just putting a number on it...
How to misuse of git

- Don’t use tags
- French commits messages
- Change original commit messages
- Use branches really badly
- Replace README.MD with advertisement!
How to misuse git

- A big commit instead of cherry-picking
Available version of MIMO

- The MIMO version on available on their website is 6.1.6.3 M9
- Just click on the git link!
- The answer is 404 response!
- Wrong copyright year...
• TDF version is signed, MIMO version?
• Of course not signed!
Conclusion

- Don’t use MIMO version of LibreOffice, still missing CVE patches
- If you need proper support please ask certified developers!
- If you want additional information don’t hesitate to ask me or the current state contractor
Thank you
License handling, v2.0
License - before

Update

Update

Generate manually

Collabora online.
License - after

XML ➔ HTML

XML ➔ TXT

Collabora online.com
Conditional license

The following software may be included in this product: FOO. Use any of this software is governed by the terms of the license below...

--with-system-foo
--with-java

- Filter based on $BUILD_TYPE, $OS, $WITH_THEMES, $MPL_SUBSET
Please update the license when adding an external.
The Next Millenium File ForMAT
THE NEXT
MI II enium
FI IE ForMAT
NOW in the year 2169

ODF File ForMat Version 42 IS published
Collab by design (API)

- API based on high-level user semantic
- DISPATCHING CHANGES (API Call)
- Working with ODF directly with GÜT++
TriumVirAT++

- Collab by design (API)
- Cross layout (VIEW)
- Machine readable model
- Generation from spec
ADVANTAGES

- Alltime collaboration
- ODF working on GÜT++
  (full history support)
- Generation of
  Libreoffice 242
remember:

If you are interested in time travelling you can always meet me..

Yesterday..
Unicode in 5 minutes
Archiving important wiki content
GDB tips and tricks
How to find bad synonyms in translation
Agenda

1: about Me
2: Characters
3: po files > csv > Graph Database
4: Synonym graph view
5: What's next?
I’m from

- Fukuoka Prefecture
  - on the Kyushu island of Japan
福岡 (Fukuoka) ≡ 博多 (Hakata)

- Hakata Ramen (博多ラーメン、博多拉麺)
  - is widely known as the best tonkotsu (pork taste) ramen
about Me

• Neo4j
  – One of founders Neo4j UsersGroup Tokyo
  – Neo4j Ambassador
  – Neo4j Speaker Program
  – Certificate Neo4j Professional

• Agile
  – Certified Scrum Master
  – Certified Scrum Product Owner
  – LeSS Practitioner

• Time Management
  – The Pomodoro Technique® Trainers

• Member
  – LibreOffice Japanese Team
  – Japan PostgreSQL Users Group (JPUG)

• Coffee
  – UCC Certified Coffee Professional
  – SCAJ Coffee Meister
  – JCQA Certified Associate Instructor in Coffee
Oops!

- I received an email the day after I booked an airplane

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**Your talk at LibOCon was not retained**

*sophi* <sophi@libreoffice.org>

To Koji

Hi Koji,
I'm sorry to tell you that your talk was not accepted by the program committee. I hope that will not prevent you to apply again next year and you will keep up the good work you are doing!

Cheers

Sophie
4 types of characters in Japanese

• Example
  - 私のスマホは iPhone です。
  - My smartphone is an iPhone.

• Type
  - **Chinese characters** (kanji) 私
  - **Kana (Hiragana)**: の、です
  - **Kana (Katakana)**: スマホ (Smartphone)
  - **English alphabet**: iPhone
Word changes with the times.

• Computer
  - 電子計算機 (Old)
  - 電算機 (Old)
  - コンピュータ (before 2008)
  - コンピューター
Translation depends on translator

• Graph Database
  - グラフ型データベース
  - グラフ型データーベース
  - グラフデータベース
  - グラフデーターベース
  - グラフ・データベース
  - グラフ・データーベース
I want to find out synonyms in the Japanese translation of LibreOffice.

- How?
- I hope to find something by Graph Database.
• The basic seems to be a square pattern.
  – En Word: Yellow
  – Ja Word: Red
  – En Sentence: Green
  – Ja Sentence: Blue
inside of po file

- po file has
  - Words and Sentences
  - English and Japanese

#. Ewn6K
#: hyperlinkdocpage.ui:82
msgctxt "hyperlinkdocpage|label2"
msgid "Document"
msgstr "ドキュメント"

#. CQrvm
#: colorconfigwin.ui:33
msgctxt "colorconfigwin|doccolor"
msgid "Document background"
msgstr "ドキュメントの背景"
from po file to csv by po2csv.py

- CSV

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>Japanese</td>
</tr>
<tr>
<td>All</td>
<td>すべて</td>
</tr>
<tr>
<td>User-defined</td>
<td>ユーザー定義</td>
</tr>
<tr>
<td>Number</td>
<td>数</td>
</tr>
<tr>
<td>Percent</td>
<td>パーセント</td>
</tr>
<tr>
<td>Currency</td>
<td>通貨</td>
</tr>
<tr>
<td>Date</td>
<td>日付</td>
</tr>
<tr>
<td>Time</td>
<td>時刻</td>
</tr>
<tr>
<td>Scientific</td>
<td>指数表記</td>
</tr>
<tr>
<td>Fraction</td>
<td>分数</td>
</tr>
<tr>
<td>Boolean Value</td>
<td>ブール値</td>
</tr>
</tbody>
</table>
into Graph Database

• Idea
  - English Word -- Japanese Word
  - English Sentence -- Japanese Sentence
  - English Sentence -- English Words
  - Japanese Sentence -- Japanese Words

• in Graph
  - (Document)-[:TRANSLATE]->(ドキュメント)
  - (Document background)-[:TRANSLATE]->(ドキュメントの背景)
  - (Document background)-[:USES]->(Document)
  - (ドキュメントの背景)-[:USES]->(ドキュメント)
The graph

- En Word: Yellow, Ja Word: Red
- En Sentence: Green, Ja Sentence: Blue
These sentences use the word “document”.

- **En Word**: Yellow, **Ja Word**: Red
- **En Sentence**: Green
“Document” and “ドキュメント”

- En Word: Yellow, Ja Word: Red
- En Sentence: Green, Ja Sentence: Blue
Japanese and English sentences use the same word.

- En Word: **Yellow**, Ja Word: **Red**
- En Sentence: **Green**, Ja Sentence: **Blue**
Search for sentences that do not use the same word.

- Japanese translation of the word ("Document")
  
  MATCH (:EnWord {text:'Document'})--(e:En)--(j:Ja)
  RETURN e.text, j.text
• Japanese translation of the word ("Document")
  – I found 3 different Japanese translations

  • 文書
    – "Document copy has been created", "文書のコピーを作った時"
    – "New Document", "新規文書の開始時"

  • ドキュメント
    – "New Document", "新しいドキュメント"
    – "My Documents", "マイドキュメント"

  • No translation
    – "Save Document As", "別名で保存する時"
make good translations.

• Check synonyms and make good translations.
  - if you unify to "文書"
    • "新しいドキュメント"、"新しい文書"
    • "マイドキュメント"、"マイ文書"（これは微妙）
  - if you unify to "ドキュメント"
    • "文書のコピーを作った時"、"ドキュメントのコピーを作った時"
    • "新規文書の開始時"、"新規ドキュメントの開始時"
What's next?

● CJK languages into Neo4j
  - Chinese
  - Japanese
  - Korean
Thanks

- Please **VOTE** for my CfP at LibOCon 2020.
- Please ask me!
  - koji@annoura.com
Many thanks to our speakers!