Forth 200x Standards Committee #7
Technische Universität Wien, Vienna, Austria.
21–23 September 2011

Agenda

1. Attendance
2. Minutes of last meeting
3. Review of Forth 2010.2 basis document
   a) ed10
   b) ed10b
   c) x:rfc
   d) x:legacy
   e) x:wordset-query
   f) x:escaped-strings
   g) x:n-to-r
   h) x:synonym
   i) x:char
   j) x:ekey
   k) x:structures2
4. Consideration of proposals (CfVs)
   a) x:enhanced-locals
   b) x:buffer (BUFFER:)
   c) x:substitute
5. Consideration of draft proposals (RfDs)
   a) x:is
   b) Found
   c) Multi-tasking block buffers
   d) SOURCE-ID when including a file
6. Consideration of Candidate Release
   a) Numbering of new words
   b) Removal of extension query designations
   c) Removal of Annex F (Reference Implementation)
   d) Removal of Annex G (Test Suite)
   e) Removal of Annex H (Change Log)
   f) Revision of Annex C (Perspective)
   g) Revision of Annex D (Compatibility with ANS Forth)
   h) Revision of Annex E (ANS Forth portability guide)
7. Progress Reports:
   a) Internationalisation (i18n)
   b) Cross Compiler
   c) IEEE FP (ieee-fp)
   d) File Names and Directories
   e) Directories (directories)
   f) Memory-Access (memory)
8. Matters arising
9. Date of Next Meeting
10. Any Other Business
1 Participants

Willem Botha  CCS, South Africa
M. Anton Ertl  Technische Universität Wien, Austria  (Chair)
Andrew Haley  Red Hat, Cambridge, England
Ulrich Hoffmann  FH Wedel, Germany
Peter Knaggs  University of Exeter, England
Bernd Paysan  Germany
Stephen Pelc  MPE, England
Bill Stoddart  Teesside University, England
Leon Wagner  FORTH, Inc., USA
Gerald Wodni  Technische Universität Wien, Austria

In accordance with the membership rule:

- Gerald Wodni becomes a full member of the committee.
- Carsten Strotmann, Willi Stricker and Federico de Ceballos have lost their voting rights by not attending two consecutive voting meetings.

2 Minutes of last meeting

The draft minutes of the last meeting were accepted (7/0/0) as a true and accurate representation of the meeting.

3 Review of Forth2009.3 basis document

i) Added Exeter meeting to the “Foreword”

ii) Added doctrinal designation for Anton Ertl and Ulrich Hoffmann. Changed contact details for Bill Stoddart and Leon Wagner.

iii) Applied \texttt{x:key-ekey}: Replacing the paragraph of 3.1.2 Character types and adding section 3.1.2.3 Primitive Character. Adding the rationale for \texttt{KEY}, replacing the rationale for \texttt{EKEY}.

iv) Added the \texttt{X:namelen} proposal: Extending the first paragraph of 3.3.1.2 Definition names. Adding the use of names longer than 31 characters as an Environmental dependency.

v) Replaced “Rationale:” reference with a “See:” reference, extending the existing “See:” section where present.

vi) Removed the “Implementation:” and “Testing:” references.

vii) Added the \texttt{X:2value} proposal: Added \texttt{2VALUE}.
viii) Corrected the reference in the CATCH test case to refer to the THROW test case rather than back to the CATCH test case.

ix) Replaced “bother with” with “process” in rationale for KEY.

x) Applied the X:fttrunc proposal: Adding a definition of “Round toward zero” to the Floating-point operations and a “see also” clause to FLOOR.

xi) Applied the X:fasin proposal: Removed the “float less than zero” ambiguous condition from FASINH and the reference to FASINH from the ambiguous condition.

xii) Applied the X:fttrunc proposal: Added FTRUNC, references to FLOOR and FROUND.

xiii) Applied the X:fatan2 proposal: Revised description of FATAN2, adding a test section.

xiv) Applied the X:fvalue proposal: Added FVALUE.

xv) Revised Annex G “Test Suite”. Corrected “exmaple” to “example” and “Heyes” to “Hayes”. Reduced severity of test by replacing “must” with “should”.

4 Consideration of proposals (CfVs)

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Comments</th>
<th>Vote</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>xchars</td>
<td>Accepted</td>
<td>7/0/1</td>
<td>PK</td>
</tr>
<tr>
<td></td>
<td>Accepted non substantive word changes</td>
<td>10/0/0</td>
<td>PK</td>
</tr>
<tr>
<td>synonym</td>
<td>Accepted into the TOOLS EXT wordset rather than the FACILITY EXT wordset</td>
<td>7/0/2</td>
<td>PK</td>
</tr>
<tr>
<td>EKEY Event</td>
<td>Parts 1–3 only</td>
<td>7/0/2</td>
<td>PK</td>
</tr>
<tr>
<td></td>
<td>Remove the last paragraph (on the event record) from the rational of EKEY.</td>
<td>8/0/1</td>
<td>PK</td>
</tr>
<tr>
<td>RFC</td>
<td>Accepted</td>
<td>9/0/0</td>
<td>PK</td>
</tr>
<tr>
<td>escaped-strings</td>
<td>Accepted</td>
<td>8/0/0</td>
<td>PK</td>
</tr>
<tr>
<td>n&gt;R</td>
<td>Accepted</td>
<td>8/0/0</td>
<td>PK</td>
</tr>
<tr>
<td>Legacy Words</td>
<td>Parts 1–3, 5–7 only</td>
<td>7/0/1</td>
<td>PK</td>
</tr>
<tr>
<td></td>
<td>Part 4.2 – Revised rationale for FORGET</td>
<td>8/0/0</td>
<td>PK</td>
</tr>
<tr>
<td></td>
<td>Part 4.1 – Remove the obsolescence tag from FORGET</td>
<td>1/7/0</td>
<td>PK</td>
</tr>
<tr>
<td>Structures wording</td>
<td>Accepted</td>
<td>8/0/0</td>
<td>PK</td>
</tr>
</tbody>
</table>

5 Discussion of fast track proposals (RfCs)

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Comments</th>
<th>Vote</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wordset-query</td>
<td>Accepted</td>
<td>7/0/0</td>
<td>PK</td>
</tr>
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</table>
6 Discussion of draft proposals (RfDs)

<table>
<thead>
<tr>
<th>Proposal</th>
<th>Comments</th>
<th>Status</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unobsolete GET FOR-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>:NAME</td>
<td>Deferred to Matters Arising</td>
<td>Ongoing</td>
<td></td>
</tr>
<tr>
<td>i18n</td>
<td>Draft as RfD</td>
<td>Referred</td>
<td>SP/PK</td>
</tr>
<tr>
<td>c-addr/len</td>
<td>No longer required after introduction of pchar.</td>
<td>Withdrawn</td>
<td></td>
</tr>
<tr>
<td>IEEE-FP</td>
<td>No further progress, Reference implementation to be provided in high level where possible.</td>
<td>Ongoing</td>
<td>AH</td>
</tr>
<tr>
<td>FNEGATE</td>
<td>Incorporate into IEEE FP proposal.</td>
<td>Referred</td>
<td>AH</td>
</tr>
<tr>
<td>substitute</td>
<td>Progress to CfV</td>
<td>Ongoing</td>
<td>SP</td>
</tr>
<tr>
<td>BUFFER:</td>
<td>Progress to CfV for inclusion in the Snapshot document.</td>
<td>Ongoing</td>
<td>SP</td>
</tr>
<tr>
<td>Filenames</td>
<td>Document environmental dependencies and restrictions on other filenames</td>
<td>Ongoing</td>
<td>AE</td>
</tr>
<tr>
<td></td>
<td>Check whether it is feasible to support / on embedded file systems</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Directories</td>
<td>Differed until after Snapshot document.</td>
<td>Ongoing</td>
<td>AE</td>
</tr>
<tr>
<td>extended-locals</td>
<td>Progress to CfV for inclusion in the Snapshot document.</td>
<td>Ongoing</td>
<td>PK</td>
</tr>
<tr>
<td>memory-access</td>
<td>Proposal not ready for consideration.</td>
<td>Referred</td>
<td>SP/PK</td>
</tr>
<tr>
<td>SIZE</td>
<td>Difficult to implement on some systems, feedback has been ignored.</td>
<td>Abandoned</td>
<td></td>
</tr>
<tr>
<td>HEADER</td>
<td>Deferred to Matters Arising</td>
<td>Ongoing</td>
<td></td>
</tr>
<tr>
<td>&lt;BUILDS</td>
<td>This would break every ANS Forth implementation.</td>
<td>Abandoned</td>
<td></td>
</tr>
</tbody>
</table>

7 Progress Reports

Integration of RFIs

1: Meaning of “flag” returned by READ-LINE at end of file. Revision of the definition of READ-LINE required. Action: AE

2: Duplicate wordlist in search order. No action required.

3: What is allowed between CREATE and DOES>. No action required.

4: Punctuation for double-cell numbers. Recommended modification to rationale to be included. Action: PK

5: Initiation Semantics. No action required.

6: Writing to Input Buffers. No action required.

7: Distinction between IMMEDIATE and “special compilation semantics”. No action required.
8 Matters Arising

i) The BUFFER: and extended-locals proposals have not been out for a CfV. The votes must be taken within the next four weeks for the proposals to be included in the next basis document (10-2) and subsequently the snapshot document. **Action: SP/PK**

ii) Annex C and D will need review before the snapshot document can be released. **Action: ALL**

iii) The :NAME and HEADER proposals prompted discussion on user defined parsing in general and the meaning of compilation and interpretation. It was felt that this is a large discussion which is beyond the scope of this meeting.

9 Any Other Business

i) The Snapshot document. Once the committee has voted on the next basis document (10-2), this will become the first Candidate Release of the Snapshot document. This should be released in time for discussion at the next Forth-Tagung meeting in April.

10 Date of Next Meeting

The next meeting will be to review the first Candidate Release of the Snapshot document. This could be held electronically, or more likely immediately prior to the next Forth-Tagung meeting in April. This will be decided via an email vote when the Snapshot document is released. **Action: PK/UH**

The next voting meeting will be held immediately prior to the next euroForth conference. The dates and location of the euroForth conference are yet to be confirmed. **Action: AE**