

DYALOG

Elsinore 2019



Link

Morten Kromberg
Adám Brudzewsky



DYALOC

Elsinore 2019

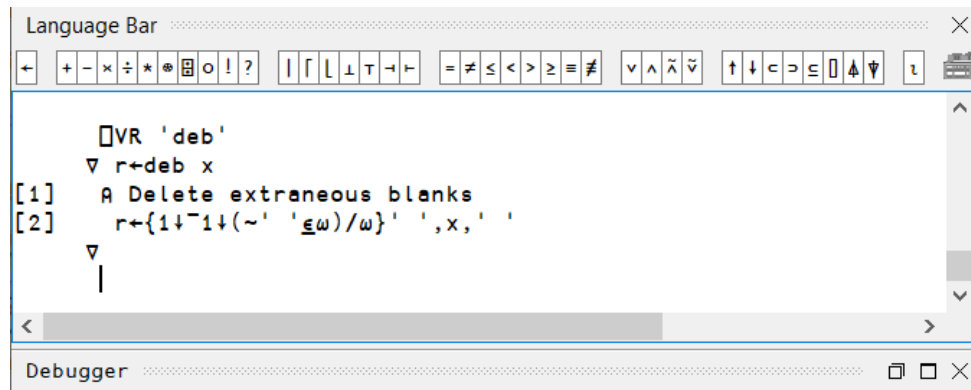
Link **IMPORTANT**

Morten Kromberg
Adám Brudzewsky

What is Link?



What is Link?



The screenshot shows the Dyalog APL IDE interface. The top window is titled "Language Bar" and contains a toolbar with various symbols for editing and navigation. Below the toolbar is a text area with the following APL code:

```
VR 'deb'  
▽ r←deb x  
[1] A Delete extraneous blanks  
[2] r←{1↓-1↓(~' '⊆ω)/ω}' ',x,' '  
▽  
|
```

The bottom window is titled "Debugger" and is currently empty.



What is Link?

Language Bar

```

VR 'deb'
▽ r←deb x
[1]  A Delete extraneous blanks
[2]  r←{1↓~1↓(~' '⊆ω)/ω}' ',x,' '
    ▽
    |
  
```

Debugger

deb.aplf - Notepad

File Edit Format View Help

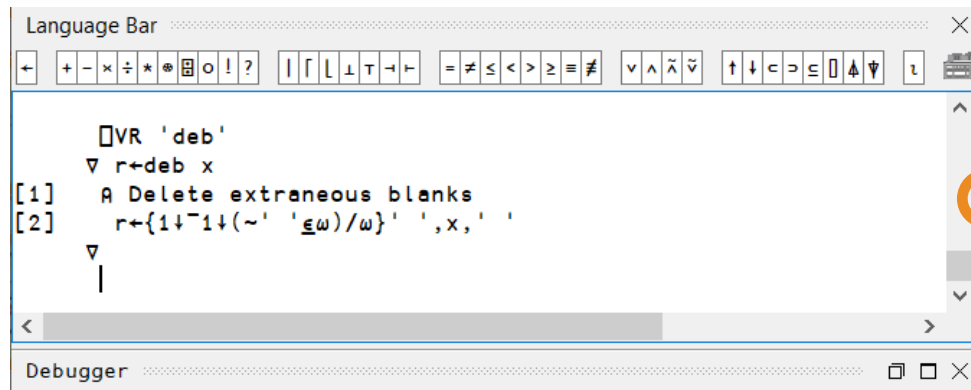
```

r←deb x
|A Delete extraneous blanks
r←{1↓~1↓(~' '⊆ω)/ω}' ',x,' '
  
```

Windows (Ln 2, Col 2 100%

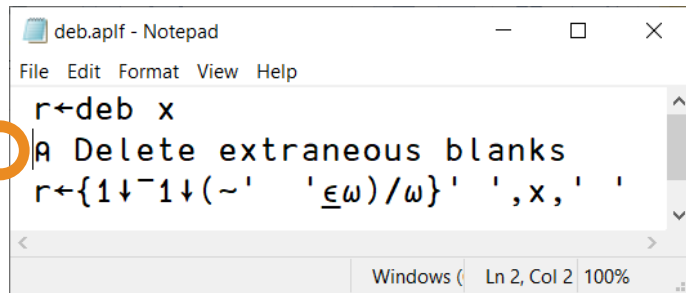


What is Link?



The screenshot shows the Dyalog Language Bar window. It contains the following APL code:

```
VR 'deb'  
▽ r←deb x  
[1] A Delete extraneous blanks  
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|
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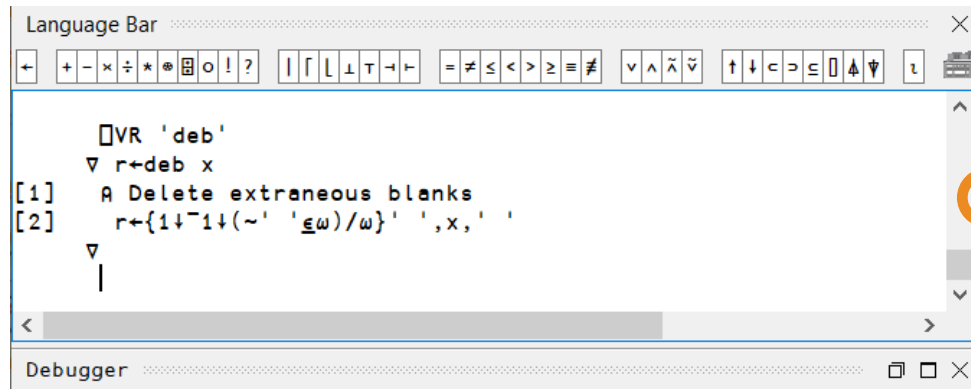


The screenshot shows a Notepad window titled 'deb.aplf - Notepad'. It contains the same APL code as the Language Bar:

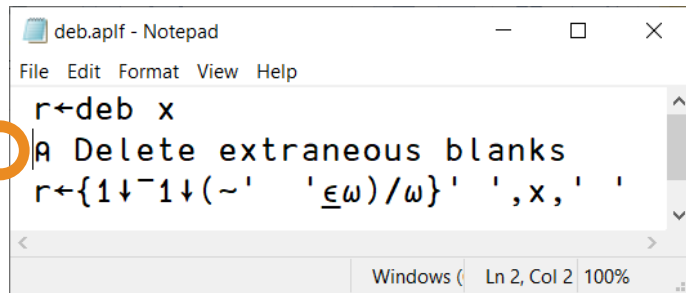
```
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What is Link?



```
Language Bar
[VR 'deb'
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```



```
deb.aplf - Notepad
File Edit Format View Help
r←deb x
A Delete extraneous blanks
r←{1↓~1↓(~' '⊆ω)/ω}' ',x,' ' '
Windows Ln 2, Col 2 100%
```

- Each code item in the active workspace is **linked** to a file
- If the object is edited, the file is updated
- If the file is changed, the workspace is updated (Win only – for now)



Wait – isn't that what SALT was doing?



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- Link replaces SALT
 - (SALT will be available until no longer used)



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- With Link...
 - The interpreter is tracking the relationships between objects and files



Wait – isn't that what SALT was doing?

- Link replaces SALT
 - (SALT will be available until no longer used)
- With Link...
 - The interpreter is tracking the relationships between objects and files
 - A *File System Watcher* responds to external changes (until v18.0, under Microsoft Windows only)



Why is Link **IMPORTANT** ?

◆ Sigh... -_(~)_/-

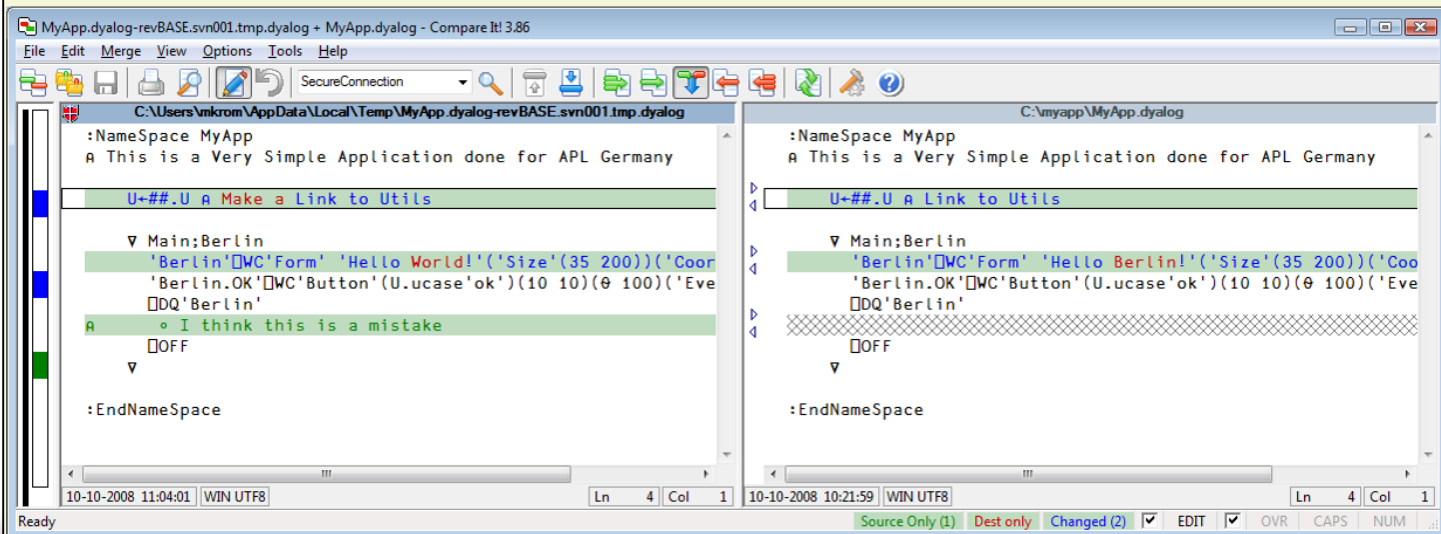


Why is Link

🟠 Sigh...

Source Code Mgt Demo

- All tools shown here downloaded from internet, none of them knew about APL in any way.

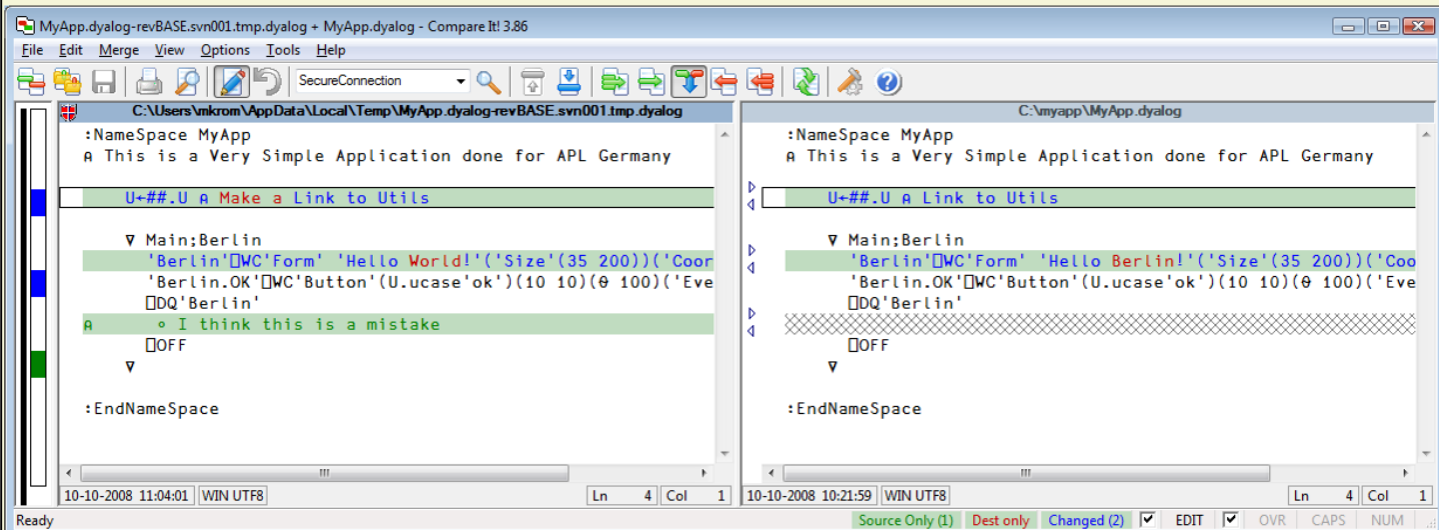


Why is Link

🟡 Sigh...

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Why is Link **IMPORTANT** ?

- With source code in text files we can use ***extremely*** attractive tools developed outside the APL community
 - Tools for editing, comparing, mergeing, refactoring, sharing, building, testing, computing statistics, ...



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Visual Studio Code



Jenkins



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Visual Studio Code



Jenkins



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 - Tools for editing, comparing, mergeing, refactoring, sharing, building, testing, computing statistics, ...
- ... in addition to all our own tools
- ... without losing any of what is good about interactive development



Visual Studio Code



Jenkins



Why is Link **IMPORTANT** ?



File

Edit

Selection

View

Go

Debug

Terminal

Help

FileSystemWatcher.apln (0f00180) ↔ FileSystemWatcher.apln (2e934c5) - Link - Visual Studio Code

GITLENS

REPOSITORIES

Link master 251 0t • ~4 -1 • Last fetched 9:29pm...

master 251 0t ↔ origin/master

Over a month ago

Handle listing links with no linked members ...

Don't init globals +0 ~1 -0 • abrudz, 2 months...

Exception trap +0 ~1 -0 • abrudz, 2 months ago

Merge branch 'master' of https://github.com...

Add general casing util +0 ~1 -0 • abrudz, 2 ...

Actually apply the case code, not just remov...

Fix #74 +0 ~1 -0 • abrudz, 2 months ago

Fixes #75: Src files incorrectly updated after)...

Fixes #77: FileSystemWatcher threading issu...

FileSystemWatcher.apln StartupS...

Fixed #76: Add "ViewMetaData" +1 ~0 -0 • Y...

... Show More Commits

25 commits behind

5 files changed

Compare master (working) with <branch, tag, ...

FILE HISTORY

LINE HISTORY

COMPARE

SEARCH COMMITS

FileSystemWatcher.apln (0f00180) ↔ FileSystemWatcher.apln (2e934c5)

c: > Devt > Link > StartupSession > Link > FileSystemWatcher.apln

27 r+JNEW Disposable watcher A wrap a de

28 r.[DF 1φ'][,##.U.WinSlash>args

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31 :Class Disposable

32 :Field Public Object

33

34 make ref

35 :Access Public

36 :Implements Constructor

37 Object+ref

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39 do_dispose ref

40 :Trap 0

41 ref.Dispose

42 :EndTrap

43

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45 dispose;tid

46 :Implements Destructor

47 Object.EnableRaisingEvents+0

48 tid+do_dispose&Object

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master* 251 0t 0 0 0



You, 2 months ago Ln 42, Col 1 Spaces: 2 UTF-8 with BOM APL

Fixes #77: FileSystemWatcher threading issue [Browse files](#)

 master

 mkromberg committed on Jun 19 1 parent 767c3d0 commit 2e934c527ce73dd77de79477fcb028ce2b56506

 Showing 1 changed file with 2 additions and 2 deletions. Unified Split

▼ 4  StartupSession/Link/FileSystemWatcher.apln 

@@ -39,10 +39,10 @@	
39 ref.Dispose	39 ref.Dispose
40 :EndTrap	40 :EndTrap
41 ▾	41 ▾
42 - ▾ dispose;tid	42 + ▾ dispose
43 :Implements Destructor	43 :Implements Destructor
44 Object.EnableRaisingEvents←0	44 Object.EnableRaisingEvents←0
45 - tid←do_disposeObject	45 + do_disposeObject
46 ▾	46 ▾
47 :EndClass	47 :EndClass
48 :EndNamespace	48 :EndNamespace



Search or jump to...



Pull requests

Issues

Marketplace

Explore

Dyalog / **contest** Private

Unwatch ▾

7

Code

Issues 9

Pull requests 0

Projects 0

Wiki

Security

Insights

Branch: **master** ▾

Commits on Aug 25, 2019

Change LogMessageLevel to 1



bpbecker committed 12 days ago ✓

Verified

Commits on Aug 6, 2019

Updated status-message



mbaas2 committed on Aug 6 ✓

Verified

Commits on Jul 31, 2019



Search or jump to...



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Unwatch ▾

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Issues 9

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Projects 0

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Commits on Aug 6, 2019

Updated status-message

mbaas2 committed on Aug 6 ✓

All checks have passed

1 successful check



continuous-integration/jenkins/branch — This comm...

[Details](#)

Stage View

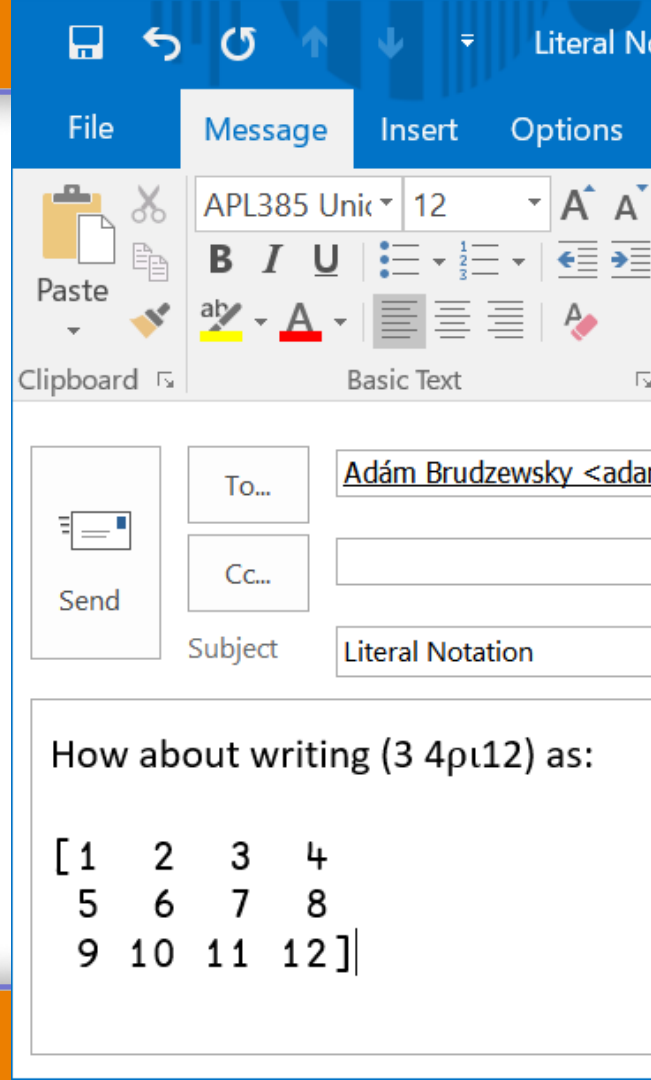
			Checkout	Update MiServer	Build Docker Image	Test website	Publish Docker image	Deploying with Rancher	Cleanup
Average stage times: (Average <u>full</u> run time: ~2min 31s)			8s	40s	16s	38s	12s	28s	1s
#598	Aug 25 22:48	1 commit	6s	41s	13s	36s	11s	24s	1s
#597	Aug 20 18:49	No Changes	5s	42s	12s	35s	11s	37s	1s
#596	Aug 06 09:56	1 commit	6s	50s	16s	35s	14s	26s	1s
#595	Jul 31	1	4s	33s	7s	35s	11s	23s	912ms

Not just "Software Tools"...



Not just "Software Tools"...

- Read, write and exchange APL code without installing an APL IDE
- Most operating systems display readable APL without installing APL fonts



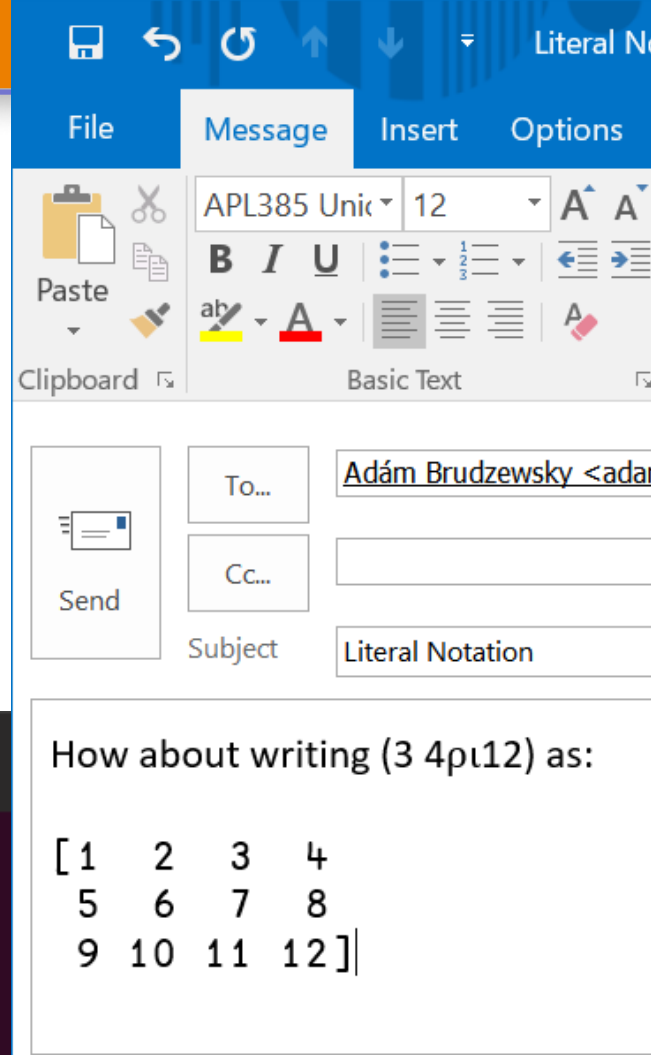
Not just "Software Tools"...

- Read, write and exchange APL code without installing an APL IDE
 - Most operating systems display readable APL without installing APL fonts
- Recent Linuxes even come with built-in APL keyboard (thanks to Geoff!)

```

mkrom@Ubuntu19:~$ setxkbmap dk,apl -option grp:win_switch
mkrom@Ubuntu19:~$ echo "æøå ∇△ αω"
æøå ∇△ αω
mkrom@Ubuntu19:~$ 

```





Lars Stampe Villadsen <Lars.S.Villadsen@

To 'Adám Brudzewsky'

Cc Morten Kromberg

 Reply

 Reply All

 Forward



to 29-08-2019 14:21

Gents,

Tools you have never heard of...

I was asked for the number of lines in our system and I used one of our 'export' git repositories to make the analysis.

It turns out that we have quite a lot of programming languages in our system and if you want to do a proper analysis of this would it require SOME coding in order to give a proper picture of the system so I turned to free software that can do the jobs for me and I found <https://github.com/AIDanial/cloc>.

It does as quite a lot of tools NOT recognize APL source files so I had to amend the so-called language file to recognize API.

This gives a very high number of lines (and no comments) – and although APL does not need to be commented (😊) – then I know this is not true.

I have tried quite a lot of different things but cannot make it recognize the comment character from APL.

So my question is – do you have a better idea that could get this in to the CLOC tool and thereby make it a



Lars Stampe Villadsen <Lars.S.Villadsen@

To 'Adám Brudzewsky'

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Reply All

Forward



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Search or jump to...



Pull requests


Issues

Marketplace

Explore


 **AlDanial** / **cloc**

 Code

 Issues 16

 Pull requests 1

 Projects 0

 Wiki

 Security



cloc counts blank lines, comment lines, and physical lines of source code in many program

cloc

count-lines

programming-language

 640 commits

 4 branches

 14 releases

Branch: master ▼

New pull request

Create



AlDanial add support for APL, #413



Unix

add support for APL, #413



Search or jump to...



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 **AlDanial** / **cloc**

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 Issues 16

 Pull requests 1

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 Security



cloc counts blank lines, comment lines, and physical lines of source code in many program

cloc

count-lines

programming-language

 640 commits

 4 branches

 14 releases

Branch: master ▼

New pull request

Create



AlDanial add support for APL, #413



Unix

add support for APL, #413

CLOC and APL



Lars Stampe Villadsen <Lars.S.Villadsen@

To 'Adám Brudzewsky'

Cc Morten Kromberg

↩ Reply

↩ Reply All

➔ Forward



to 29-08-2019 14:21

Gents,

I was asked for the number
analysis.

It turns out that we have qu
analysis of this would it req
free software that can do th

It does as quite a lot of tool
recognize API ·

This gives a very high numb
(😊)) – then I know this is n

I have tried quite a lot of dif

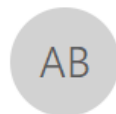
So my question is – do you

Re: CLOC and APL - Message (HTML)

File Message Help Tell me what you want to do

Delete Archive Reply Reply All Forward Quick Steps Move Tags Editing Speech Zoom

Re: CLOC and APL



Adám Brudzewsky <adam@dy

To Lars Stampe Villadsen

Cc Adám Brudzewsky; Morten Kromberg

↩ Reply

↩ Reply All

➔ Forward



fr 30-08-2019 06:24

You replied to this message on 30-08-2019 08:15.

[CLOC now supports APL.](#)

CLOC and APL



Lars Stampe Villadsen <Lars.S.Villadsen@

To 'Adám Brudzewsky'

Cc Morten Kromberg

↩ Reply

↩ Reply All

➔ Forward



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Re: CLOC and APL - Message (HTML)



File

Message

Help



Tell me what you want to do



Delete Archive

Delete

↩ Reply

↩ Reply All

➔ Forward

Respond



Quick Steps

Quick Steps



Move



Tags



Editing



Speech



Zoom



Zoom



Re: CLOC and APL



Adám Brudzewsky <adam@dy

To Lars Stampe Villadsen

Cc Adám Brudzewsky; Morten Kromberg

↩ Reply

↩ Reply All

➔ Forward



fr 30-08-2019 06:24



You replied to this message on 30-08-2019 08:15.

[CLOC now supports APL.](#)

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175

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7

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add support for APL, #413

[master](#)

AIDanial committed 13 hours ago

1 parent 0880f13

commit e2ecba8957b1e09b6dd

[Showing 5 changed files](#) with 67 additions and 6 deletions.

▼ 17 Unix/cloc

```
@@ -6832,6 +6832,16 @@ sub set_constants { # {{{1
```

6832	'aj'	=>	'AspectJ'	,	6832	'aj'	=>	'AspectJ'	,		
6833	'am'	=>	'make'	,	6833	'am'	=>	'make'	,		
6834	'ample'	=>	'AMPLE'	,	6834	'ample'	=>	'AMPLE'	,		
					6835	+		'apl'	=>	'APL'	,
					6836	+		'apla'	=>	'APL'	,
					6837	+		'aplf'	=>	'APL'	,
					6838	+		'aplo'	=>	'APL'	,
					6839	+		'apln'	=>	'APL'	,
					6840	+		'aplc'	=>	'APL'	,
					6841	+		'apli'	=>	'APL'	,
					6842	+		'dyalog'	=>	'APL'	,
					6843	+		'dyapp'	=>	'APL'	,
					6844	+		'mipage'	=>	'APL'	,

Why is Link **IMPORTANT** ?



Visual Studio Code



Why is Link **IMPORTANT** ?



Visual Studio Code



cloc

Count Lines of Code



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The Carlisle Group, Inc

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Dunmore, Pennsylvania

<https://www.carlislegroup.com>

support@carlislegroup.com

Verified



Repositories 14



Packages



People



Projects

Pinned repositories



Acre-Desktop

A simple Dyalog APL IDE plugin that introduces "projects" and allows you to keep your source code in Unicode text files.



APL



6



1

Type: All ▾

Language: All ▾

AWSTools

Dyalog APL Amazon Tools

 MIT  0  0  0  0 Updated 10 hours ago



Top languages

 APL  JavaScript

D19SP1

Dyalog APL User Meeting Cloud Workshop resources

 APL  0  0  0  0 Updated 11 hours ago



Most used topics

apl

dyalog

acre

acre-desktop

Acre-Desktop

A simple Dyalog APL IDE plugin that introduces "projects" and allows you to keep your source code in Unicode text files.

apl

acre

dyalog

dyalogapl

acre-desktop

aplsources

dyalog-apl

 APL  MIT  1  6  16  0 Updated 15 hours ago



People



This organization has no public members.
You must be a member to see who's a part of this organization.

AcreTools

Tools for working with Acre Projects.

 APL  MIT  2  1  6  0 Updated 2 days ago



Rumba

A Web Server for Dyalog APL

● APL  MIT  1  1  10  1 Updated 4 days ago



DyalogDCL

Dyalog DCL library clone accessible from Acre-Desktop

 0  0  0  0 Updated 7 days ago



DCFAnalyzer

Dyalog Component File Debug Analyzer


 0  0  0  0 Updated 7 days ago



DCL

Forked from Dyalog/DCL

Dyalog Cryptographic Library

● APL  2  0  0  0 Updated 17 days ago



XL2APL

github.com/Dyalog

More and more of Dyalog's
APL code is appearing on
GitHub



Why GitHub? Enterprise Explore Marketplace Pricing Sign in Sign up

Dyalog
Official Dyalog Repository tree (for Raspberry Pi specific repositories see <https://github.com/aplpi>)
United Kingdom <http://www.dyalog.com>

Repositories 33 Packages People 3 Projects

Find a repository... Type: All Language: APL

21 results for repositories written in APL Clear filter

DUI
Dyalog User Interface - HTML-based cross-platform UI for Dyalog APL
APL MIT 1 1 2 1 Updated 5 hours ago

MiServer
MiServer- an APL-based web server - requires Dyalog APL available from <http://www.dyalog.com>
apl
APL MIT 8 25 7 0 Updated yesterday

JSONServer
A light-weight APL-based HTTP server to call APL code from the net by passing arguments and results as JSON.
json http-server apl json-server dyalog
APL Unlicense 3 2 0 0 Updated 4 days ago

link
Code for linking a namespace to a directory
synchronization sourcecode source-code apl
som dyalog dyalog-library
APL MIT 2 4 18 0 Updated 4 days ago

library-conga
APL 0 0 1 0 Updated 13 days ago

isolate

Top languages
APL Shell Python C HTML

Most used topics
apl dyalog dyalog-apl
dyalogapl

People 3 >

Other Benefits of Text Source



Other Benefits of Text Source

- Easily share code between APL versions



Other Benefits of Text Source

- ✧ Easily share code between APL versions
- ✧ Text files are backwards **and** forwards compatible



Other Benefits of Text Source

- ✧ Easily share code between APL versions
- ✧ Text files are backwards **and** forwards compatible

Drawbacks of Text Source




```
]map  
]link.create # /tmp/myapp -source=ns  
C:> tree /f myapp  
□SE.Link.Add 'msg' 'primes' 'type'  
C:> tree /f myapp  
C:> type msg.apla  
*** pull out Utils ***  
]link.create Utils /tmp/Utils  
)ed Utils.dup  
*** show windows ***  
)ed goo  
*** show windows ***
```



Compete for prizes totaling €500



Compete for prizes totaling €500

```

SE.Link.Serialize ↓2 3 2pA
['AB'  'CD'  'EF'
 'GH'  'IJ'  'KL']

```

```

SE.Link.Serialize ↓2 3 2p10
[(1 2)  (3 4)  (5 6)
 (7 8)  (9 10) (1 2)]

```



Compete for prizes totaling €500

```

SE.Link.Serialize 5↓5TC
[
  ((( ( (UCS 8)) ♦ )) ♦ ))
  ((( ( (UCS 10)) ♦ )) ♦ ))
  ((( ( (UCS 13)) ♦ )) ♦ ))
]

```

```

SE.Link.Serialize ↓↓2 3 2p10
(
  ((1 2 ♦ 3 4 ♦ 5 6 ♦ ))
  ((7 8 ♦ 9 10 ♦ 1 2 ♦ ))
)

```



Compete for prizes totaling €500

```

SE.Link.Serialise 5↓5TC
[
  ((( ( (UCS 8) ) ♦ ) ) ♦ )
  ((( ( (UCS 10) ) ♦ ) ) ♦ )
  ((( ( (UCS 13) ) ♦ ) ) ♦ )
]

```

```

[ ( (UCS 8 ♦ ) ♦ )
  ( (UCS 10 ♦ ) ♦ )
  ( (UCS 13 ♦ ) ♦ ) ]

```

```

SE.Link.Serialise ↓↓2 3 2p10
(
  ((1 2 ♦ 3 4 ♦ 5 6 ♦ ))
  ((7 8 ♦ 9 10 ♦ 1 2 ♦ ))
)

```

```

((1 2 ♦ 3 4 ♦ 5 6)
 (7 8 ♦ 9 10 ♦ 1 2))

```



]LINK

]link -?

LINK	User commands for namespace-directory synchronisation (see https://github.com/dyalog/link/w)
Add	Associate item in linked namespace with new file/directory in corresponding directory
Break	Break link between namespace and corresponding directory
Create	Link a namespace with a directory (create one or both if absent)
Export	Export a namespace to a directory (create the directory if absent); does not create a link
Expunge	Erase item and associated file
GetFileName	Return name of file associated with item
GetItemName	Return name of item associated with file
Import	Import a namespace from a directory (create the namespace if absent); does not create a link
List	List active namespace-directory links
Refresh	Fully synchronise namespace-directory content



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9

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4

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2

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Home

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Adám Brudzewsky edited this page 23 days ago · 6 revisions

Link facilitates the use of text files for APL source code through the creation of one or more *links* between *namespaces* inside the active workspace and *directories* containing source code.

Functionality provided by links include:

- **Keeping Source Files Up-to-date:** Typically, links are configured to replicate any changes made using the Dyalog editor and tracer to external source files. As a result, the source files are kept up-to-date without further action by the developer.
- **Integrating External Changes into the workspace:** Links can be also be configured to use a "file system watcher" to replicate changes made using external tools such as editors and source code management systems inside the active APL session. This functionality is currently only available under Microsoft Windows, but the intention is to extend support to all platforms.
- **Loading and Saving Source Files:** Link can also be used to copy source code into or out of an

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