Debugger, Error System, and Unwinder test report

This report is for tests written and executed up to March 24, 1987 on the <Lyric>Basics>Full.Sysout generated 11-Mar-87.

The following tests are for the integration of the new error system into the Interlisp environment.

The source for this report is {Erinyes}<Test>Lisp>Lyric>Plans>Debugger.NoteFile

The print version of this test report is filed at {Eris}<Lispcore>Test>Debugger>Report.IP

The test plan is filed at {Erinyes}<Test>Lisp>Lyric>Plans>Debugger.NoteFile and IP.

Groups of tests were written and executed on the 1109 for all the commands in the Debugger document in the Xerox Common Lisp implementation notes.

These are stored on {eris}<Lispcore>Test>Debugger>BreakWindow.u

Groups of tests were written and executed on the 1109 for most of the functions in IRM chapter 15: Breaking, Tracing, and Advising.

These are mostly automatic tests but some require user interaction. They are stored in {Eris}<Lispcore>Test>Debugger>Debugger.u

For tests of the Xerox extentions to the CML error system, see {Eris}<Lispcore>cml>test>24-*. {Eris}<Lispcore>cml>test>cl-error.x and {Eris}<Lispcore>cml>test>errorsystem.notefile which is the source for {Eris}<Lispcore>cml>test>24-errorsystem.x.

Regression Test for ARS

ARS tested 21-Jan-87 < Lyric>basics>full.sysout

7152 passed 7780 new 7797 new 6503 passed

New ARs generated

Several problems were discovered and reported as ARs. Each of these have tests. The following are only new ARs generated up to February 28.

DEBUGGER.NEWARS

7486 debugger "eval:" undocumented

7522 missing second param causes random error reporting

7601 unnamed proceed cases break compute-proceed-cases

7679 Version .01 Error System documentation edits

7780 argument names of broken fns unbound in debugger

7797 breaking/tracing advised fns does not update brokenfns

7845 exec il:settopval il:helpflag serious-condition attempt-to-change-constant

7848 (IL:NLSETQ (CL:SIGNAL 'ERROR)) breaks

7868 bad package fix readtable change screws up fix

7873: Common functions should be safe to break

AR 7923 il:brkinfolst no longer exists

AR 7908 untrace also unbreaks

AR 7919 TRACE no longer works for undefined subfunctions

AR 7932: (unbreak (sub-fn in super-fn)) has two problems

Original List of ARs

ERRORSYSTEM.ARSUMMARY

AR Summary generated on 17-Feb-87 10:33:56

Generated with Query Spec: (AND (Submitter: HAS Kelley)) Sorted with Sort Spec: (Status:) Subsystem: Subject: Priority: Difficulty Impact: Numbe Date: System: Status: Problem Type: 4-Nov-86 Common Lisp Jellinek.pa CL:OPEN says FILE NOT FOUND for BUSY FILE 6787 File System In New Absolutely 6810 5-Nov-86 Common Lisp Streams and I/ New Jellinek make-synonym-stream core file read fails Bug 10-Nov-86 Common Lisp 6847 vanMelle, W Making straight common-lisp text files using SEdit Unlikely Other New Feature Hard 6987 2-Dec-86 Common Lisp Streams and I/ New Jellinek make-broadcast-stream should check for list arg Absolutely Bug 9-Dec-86 Programming En Code Editor 7033 New Wozencraft SEdit global replace breaks 15-Dec-86 Common Lisp Streams and I/ New force-output should flush pages buffered in vmem 7067 Jellinek Serious 7118 29-Dec-86 Programming En Code Editor Sizing to fit SEdit window region length Perhaps New W07 Feature 8-Jan-87 Common Lisp 7168 Portable DO-TEST needs expect-errors Other New 19-Jan-87 Language Suppo Storage Format New SPELLFILE should use FILEDATES prop, but doesn't 7268 vanmelle Hopefully Bug -Jan-87 Programming En Break Package New 7308 21 CL:READ should be in the list of break warning fns **Daniels** Absolutely Design - UI 4-Feb-87 Communications Other 7436 LispCore↑.p Constant requests for passwords Common Lisp Error System Programming En Code Editor 4-Feb-87 7439 Error System New Biggs, Dani Error system documentation needs re-writing 4-Feb-87 7448 New Wozencraft, SEdit looses edits of whole lists 7451 4-Feb-87 New Fischer Old-Interlisp-Exec comes up in current pkg&rdtbl 5-Feb-87 Programming En Break Package New 7486 Daniels debugger "eval:" undocumented 7522 6-Feb-87 New Daniels CERROR missing second param causes random error reporting Minor 7601 10-Feb-87 Error System unnamed proceed cases break compute-proceed-cases Common Lisp Daniels,Big Version .01 Error System documentation edits Biggs WHO-LINE mention missing from overview 7679 12-Feb-87 Common Lisp Error System New 7680 12-Feb-87 Documentation Product Descr/ New Sybalsky, S TEDIT not calling EDITBM? 7681 12-Feb-87 Text **TEdit** 7686 12-Feb-87 Documentation Interlisp Refe Biggs, Sybal IL => CL function map needed New 7687 12-Feb-87 Programming En Code Editor Wozencraft SEdit should reflect a change in readtable New SeditSuppor SEdit quits refreshing after soft stack overflow Wozencraft. ATTACHWINDOW JUSTIFY should work for thin 7696 12-Feb-87 Programming En Code Editor New 27-May-86 Windows and Gr Window System Open windows Hopefully 4-Nov-86 Common Lisp Moderate Bug Streams and I/ Open 6789 Jellinek.pa make-concatenated-stream core file problem Absolutely 6919 18-Nov-86 Open Jellinek SETFILEINFO does not take FileName in all cases Bug 4847 5-Dec-85 Communications Other Fixed FileCache breaks when running init.firsttime Hopefully

make-string-input-stream breaks on printed double

il:|fetch| dwimification problems

KEYACTION does not work for MOVE.

Jellinek

Bug

Changing CPE and memory boards gives MP9335

make-string-input-stream calls OPENSTRINGSTREAM

DEBUGGER.ARSUMMARY

7098

4890

6797

6799

7529

AR Summary generated on 16-Feb-87 16:23:08

with unconverted string Absolutely

Moderate Bug 22-Dec-86 Common Lisp

5-Nov-86 Common Lisp

Absolutely

Hopefully

4-Nov-86

Generated with Query Spec: (AND (Subsystem: IS Break Package)) Sorted with Sort Spec: (Status:)

Numbe Date: System: Subsystem: Subject: Priority: Difficulty Impact: Status: Attn: Problem Type:

Streams and I/ Fixed

Streams and I/ Declined

Bug

Declined

Moderate Bug

9-Feb-87 Language Suppo Stack and Inte Incomplete

10-Dec-85 Operating Syst Virtual Memory Declined

6851 10-Nov-86 Programming En Break Package Absolutely Feature		masinter	If a u.d.f. has a functions definition, wa	nt the d	
23:07:31 vironment	efinition	n to be unsa	ved, ala Interlisp-D environme		
nt. 6981 1-Dec-86 Programming En Break Package Annoying Bug	New	Fischer.PA	Trace Window Overflow	Hopefully	
08:56:50 vironment 6993 3-Dec-86 Programming En Break Package Hopefully Moderate Annoying Bug	New	daniels	Bug in debugger: Buttoning "display edi	t" from the	
15:57:33 vironment 7016 6-Dec-86 Programming En Break Package			s the function cell Want -> = commands for debugger	Unlikely	
Serious Design - Impl 07:40:10 vironment aniels	s, big				
gs 7079 17-Dec-86 Programming En Break Package i Hopefully Easy Annoying Bug		daniels	Debugger should skip SI::*UNWIND-PR	ROTECT* frames	
13:26:10 vironment 7084 17-Dec-86 Programming En Break Package Absolutely Bug		rting errors daniels, va	a BREAKOK doesn't work under Interli	sp exec/profil	
18:07:17 vironment nMell 7085 17-Dec-86 Programming En Break Package Absolutely Moderate Serious Bug	New		valuator, gets uba BROKEN a UNBREAK (foo :in bar) doesn't find us	ses in subfunc	
20:36:10 vironment 7089 19-Dec-86 Programming En Break Package Absolutely Easy Fatal Bug 10:23:56 vironment	tions New eak	daniels.pa	OPENWP should be on list of unsafe	functions to br	
7097 19-Dec-86 Programming En Break Package Hopefully Moderate Moderate Bug		Daniels	Wrong frame current in broken function	n in debugger	
22:36:05 vironment 7122 29-Dec-86 Programming En Break Package Absolutely Bug	New	Daniels	Break window BT frame window doesn	't show arg name	
13:47:11 vironment 7213 13-Jan-87 Programming En Break Package Serious Bug		oken fn. daniels, pa	a Trace replacing old fn defn.	Hopefully	
02:10:08 vironment vel 7215 13-Jan-87 Programming En Break Package Perhaps Moderate Feature 02:16:43 vironment	New	daniels	Arguments displayed during trace are ra	andom.	
7236 14-Jan-87 Programming En Break Package	New	daniels	Information in breakpoint, backtrace, an	d frame wi	
Absolutely Moderate Moderate Bug 16:07:14 vironment ndow is printed with inconsistent package / readta					
ble. 7267 16-Jan-87 Programming En Break Package Unlikely Easy Annoying Design - U		WOZ	Bad bahavior of backtrace window inspe	ect menu	
16:06:54 vironment 7295 20-Jan-87 Programming En Break Package Absolutely Hard Serious Document 17:45:26 vironment qqs	New ation	Daniels, B	i Need to finish documentation for the n	ew DEBUGGER	
7296 20-Jan-87 Programming En Break Package Absolutely Moderate Serious Docume	New entation	Fischer, B	i New Step and trace need documentati	on	
17:48:23 vironment ggs 7308 21-Jan-87 Programming En Break Package Absolutely Design - UI	New	Daniels	CL:READ should be in the list of break	warning fns	
16:14:01 vironment 7355 26-Jan-87 Programming En Break Package Design - UI	New	Pavel, Dar	ni Want better support for debugging int	erpreted code	
23:27:01 vironment els 7371 28-Jan-87 Programming En Break Package Absolutely Moderate Design - UI		Daniels	Stack overflow condition should get not	mal debugge	
12:01:49 vironment	r windo		ENTER REPUISOER R. I. III	, 0700405	
7383 29-Jan-87 Programming En Break Package CONDIT Hopefully Easy Moderate 11:41:06 vironment	New Design - I IONs	Daniels Impl	ENTER-DEBUGGER-P should say yes	for STORAGE-	
7384 29-Jan-87 Programming En Break Package Hopefully Easy Annoying Design - 11:43:08 vironment	New	Sī	FACK-OVERFLOW errors should get a r	new window	
7402 30-Jan-87 Programming En Break Package Moderate Bug	New	Daniels	Closing a debugger window does not a	lways abort	
12:56:11 vironment 7441 4-Feb-87 Programming En Break Package Serious Bug	New	Daniels	Can't break Interlisp NLAMBDAs	Absolutely	
14:57:56 vironment 7445 4-Feb-87 Programming En Break Package Hopefully Moderate Bug	New	Daniels	INSPECTCODE from debugger should	always inspect se	
16:51:54 vironment 7474 4-Feb-87 Programming En Break Package Absolutely Easy Serious Bug	lected f New	frame Daniels	The debugger should rebind *READ-SU	IPPRESS* to NIL	
21:28:01 vironment 7486 5-Feb-87 Programming En Break Package	New	Daniels	debugger "eval:" undocumented		

15 III 5-EBD-X/ PROGRAMMING EN BROOK PACKAGE	New	Daniels	Debugger gives lexical environment to EVAL too oft	
7510 5-Feb-87 Programming En Break Package Absolutely Moderate Bug 18:22:32 vironment	en	Daniels	Debugger gives lexical environment to EVAL too off	
7589 10-Feb-87 Programming En Break Package Feature		daniels	Want !EVAL debugger command	
15:10:43 vironment 7592 10-Feb-87 Programming En Break Package 17:47:02 vironment	New	Н	ELPDEPTH no longer controls break depth	
7742 13-Feb-87 Programming En Break Package Absolutely Serious Bug	New	Daniels	ADVISE doesn't work on Common Lisp functions	
18:53:10 vironment 7748 13-Feb-87 Programming En Break Package Hopefully Easy Minor Feature 19:25:46 vironment	New	Daniels	Want better name for Breakpoint, tracing functions	
118 17-Mar-84 Programming En Break Package Perhaps Hard Moderate Feature	Open	Pavel	Want EDIT command in debugger to work even when co	
0:19:30 vironment 494 4-Apr-84 Programming En Break Package Absolutely Moderate Feature		compiled. Masinter	HELPFLAG = BREAK! should cause breaks on every err	
11:24:03 vironment 1032 8-May-84 Programming En Break Package Unlikely Moderate Annoying Feature	•	Masinter	CML: Want to trace & break macros, like "push, pop	
17:21:55 vironment 3972 25-Jun-85 Programming En Break Package Perhaps Moderate Feature		Masinter.	pa Want to be able to trace variables at execution ti	
12:46:56 vironment 4164 1-Aug-85 Programming En Break Package Absolutely Hard Annoying Documer 16:18:20 vironment nter.	ntation	Biggs, Ma	si Want extended documentation of the Break Package	
5099 29-Jan-86 Programming En Break Package Unlikely Minor Feature		Burton	want shift selection from the backtrace menu	
10:06:54 vironment 6231 27-Jul-86 Programming En Break Package Hopefully Moderate Serious Feature		Masinter	EDIT in break window under Common Lisp won't edit	
10:29:22 vironment 6542 29-Sep-86 Programming En Break Package Hopefully Annoying Feature		rpression Masinter	TRACE window doesn't hold when page is full	
08:56:25 vironment 6959 25-Nov-86 Programming En Break Package Absolutely Fatal Bug 15:25:50 vironment	Open	Masinter	Can't advise ARGTYPE = 2 functions	
6960 25-Nov-86 Programming En Break Package Moderate Feature	Open	daniels.pa	a Want one-shot breakpoints Unlikely	
15:46:22 vironment 7364 27-Jan-87 Programming En Break Package Serious Bug	Open	Daniels	(TRACE) gives ("nil not a function")	
15:46:22 vironment 7364 27-Jan-87 Programming En Break Package Serious Bug 19:10:55 vironment 7386 29-Jan-87 Programming En Break Package Absolutely Fatal Bug	·		(TRACE) gives ("nil not a function") DVISE AROUND uses u.d.f. IL:\\SAFEAPPLY	
15:46:22 vironment 7364 27-Jan-87 Programming En Break Package Serious Bug 19:10:55 vironment 7386 29-Jan-87 Programming En Break Package Absolutely Fatal Bug 13:01:11 vironment 7391 29-Jan-87 Programming En Break Package Moderate Design - Impl	Open	А	,	
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15:46:22 vironment 7364 27-Jan-87 Programming En Break Package Serious Bug 19:10:55 vironment 7386 29-Jan-87 Programming En Break Package Absolutely Fatal Bug 13:01:11 vironment 7391 29-Jan-87 Programming En Break Package Moderate Design - Impl 14:32:21 vironment 7618 11-Feb-87 Programming En Break Package Serious Design - Impl 12:36:42 vironment 1034 8-May-84 Programming En Break Package Perhaps Easy Serious Design - U 17:24:30 vironment 1035 8-May-84 Programming En Break Package Absolutely Moderate Moderate Bug 17:25:02 vironment 1036 8-May-84 Programming En Break Package Hopefully Moderate Annoying Design 17:25:59 vironment 1122 18-May-84 Programming En Break Package nosp Perhaps 12:25:45 vironment 1694 24-Jul-84 Programming En Break Package Unlikely Hard Moderate Bug 10:04:53 vironment 1970 28-Aug-84 Programming En Break Package Absolutely Moderate Design - Ul 09:46:40 vironment	Open Open Open Fixed Ow Fixed Out Fixed Out Fixed Fixed Fixed Foo- Fixed Ses birised ws	A W Daniels TF Cc cf for break) (BF IN-BAR in CR Ît reak package	DVISE AROUND uses u.d.f. IL:\\SAFEAPPLY //ant !EVAL in debugger BREAK :IN broken Absolutely RACE of (C)EXPR*'s fails to show arguments RACEing shifts (TTYDISPLAYSTREAM) into trace wind onfusing appearance of TRACE's value-return line mange STKNARGS, STKARG to see args of Lambda- REAK (FOO IN BAR)) replaces recordname FOO with REATE B while a traced function is being executed confu	

20:39:12 vironment acti 5556 24-Apr-86 Programming En Break Package Fixed acting like top-level typescript window ixed AUTOBACKTRACEFLG vs. TRACE Absolutely Bug 11:48:47 vironment 11-Jun-86 Programming En Break Package Fixed 5807 AUTOBACKTRACEFLG = ALWAYS breaks TRACE Absolutely Serious Bug 09:38:52 vironment 5940 28-Jun-86 Programming En Break Package Fixed Moderate Design - Impl biggs BT in break windows isn't very useful. Absolutely 02:06:18 vironment 6007 8-Jul-86 Programming En Break Package Fixed Break handling under CMLEXEC should be CMLreading Absolutely Annoying Design - Impl 11:03:28 vironment 6128 19-Jul-86 Programming En Break Package Fixed Want to be able to include 1-cell arglist debuggin Absolutely Design - Impl 04:17:22 vironment g info in compiled code, have printcode etc know a bout them 8-Sep-86 Programming En Break Package Fixed Moderate Bug 6445 Can't revert from the menu any more Absolutely 17:57:29 vironment 6712 27-Oct-86 Programming En Break Package Fixed Break package obscures system variables Absolutely Moderate Bug 09:44:31 vironment 4-Nov-86 Programming En Break Package Fixed Moderate Design - Impl 6796 EVAL in debugger doesn't print result Absolutely 17:59:31 vironment

6-Nov-86 Programming En Break Package 6817 Fixed Backtrace windows (and printed backtraces) show to Hopefully Annoying Design - UI 12:33:52 vironment o many calls 6818 6-Nov-86 Programming En Break Package Fixed Stack frame display for CL EVAL frames should show Hopefully Moderate Annoying Feature 12:40:05 vironment more 6927 19-Nov-86 Programming En Break Package debugger windows pop up on top of one another. Fixed Absolutely Annoying Design - UI 11:54:28 vironment 6952 24-Nov-86 Programming En Break Package Fixed PAGEHEIGHT remains debugger window height after de Absolutely Annoying Bug 12:01:36 vironment bugger exit 7121 29-Dec-86 Programming En Break Package ?= under breakpoint shows broken fn, rather than a Fixed Bug Absolutely 13:44:59 vironment rgs 7155 7-Jan-87 Programming En Break Package Fixed Fischer Debugger BTV! command :print-junk option broken Absolutely Easy Annoying Bug 11:23:37 vironment 7329 23-Jan-87 Programming En Break Package Fixed Help info on debugger menu is "NIL" Hopefully Annoying Bug 18:09:49 vironment 10-Feb-87 Programming En Break Package Fixed 1 out of break under "EVAL" unwinds too far Absolutely Serious Design - Impl 19:18:26 vironment 10-Feb-87 Programming En Break Package Fixed "PROCEED" shows too much, starts at wrong frame Moderate Design - Impl Absolutely 19:22:56 vironment 6237 28-Jul-86 Programming En Break Package Closed Change break package uses a special variable to * Easy Annoying Design - Impl WINDOW-BREAK* from WBREAK to decide whether to sta 14:01:45 vironment rt a new window or to use the same one instead of
MOVDs when WBREAK(T) or WBREAK(NIL)
kage Declined Break of (REPLACE IN FOO) gives erroneous error me 2347 8-Oct-84 Programming En Break Package Perhaps Annoying Design - UI 14:23:41 vironment ssage (REPLACE was undefined) 17-Jul-85 Programming En Break Package Declined Annoying Design - UI want ~ to be treated equivalent to ↑ in break wind Perhaps 4102 19:13:39 vironment ow 17-Apr-84 Programming En Break Package Superseded Perhaps Moderate Annoying Design - Ul (Superseded by AR 1035) ↑ out of break can switch TTY stream to TRACE window 16:25:26 vironment 1740 2-Aug-84 Programming En Break Package Superseded editing under a break (superseded by AR 162) Moderate Bug 14:00:53 vironment 6-Dec-84 Programming En Break Package Superseded AUTOBACKTRACEFLG = Perhaps Annoying 2809 (Superseded by AR 5556) Setting Annoying Bug 09:56:17 vironment ALWAYS causes a break when a traced fn is called: "TRACE - UNBOUND ATOM" 2863 12-Dec-84 Programming En Break Package Superseded BURTON.PA Harmony: tracing functions (superceded by AR 2863) 16:10:44 vironment 2967 29-Dec-84 Programming En Break Package Superseded (Superseded by AR 1035) BREAK windows can be left Unlikely Minor Bug 08:52:57 vironment on screen after REVERT to broken fn.

3487 14-Mar-85 Programming En Break Package Supe Perhaps Annoying Design - Impl	seded (Superseded by AR 1035) Display stream switched to
09:13:59 vironment break 3540 25-Mar-85 Programming En Break Package Supe	k window when HELPFLAG set to break! seded (Superseded by AR5556) When Moderate Bug
AUTOBACKTRACEFLG=ALWAY Hopefully 08:39:38 vironment S!, a	ny TRACEd function stops with UNBOUND ATOM TR
5219 14-Feb-86 Programming En Break Package Supe alw Absolutely Moderate Bug	seded superseded by AR494: HELPFLAG = BREAK! doesn't
11:41:33 vironment ays 6099 16-Jul-86 Programming En Break Package Supers ALWAYS Perhaps Annoying Bug	vork eded (Superseded by AR 5556) AUTOBACKTRACEFLG of
17:46:31 vironment or A	LWAYS! breaks TRACE
7011 6-Dec-86 Programming En Break Package Super Serious Design - UI 06:53:47 vironment	seded debugger entry frame odd Absolutely
7083 17-Dec-86 Programming En Break Package Supe Absolutely Bug	seded [SUPERSEDED BY 7121] ?= doesn't work for il:broken
18:01:11 vironment fns 7247 15-Jan-87 Programming En Break Package Super Absolutely Moderate Serious Bug	seded Superseded by AR7236: Frame inspector window in De
	er always uses IL package, readtable ete HELPFIX is calling EDITE with Type=FNS when there
9:29:34 vironment is no 2223 21-Sep-84 Programming En Break Package Obso Annoying Design - Impl	
15:09:15 vironment 2533 30-Oct-84 Programming En Break Package Obsol Moderate Bug	ete Break window becomes Toplevel
09:41:33 vironment 2598 7-Nov-84 Programming En Break Package Obsol Perhaps Annoying Bug	ete Got UNBOUND ATOM "↑" and "?=" in break window
17:07:01 vironment 2614 8-Nov-84 Programming En Break Package Obsol Minor Bug	ete MaxBkMenuHeight no longer effective Perhaps
14:55:36 vironment 2928 19-Dec-84 Programming En Break Package Obso Perhaps Minor Performance	ete Break window frame inspect window opened twice whe
08:09:37 vironment n firs 2968 29-Dec-84 Programming En Break Package Obso trans Absolutely Moderate Bug	t created ete REVERT to Nlambda-nospread with LOCALVAR arg
	s arg to (LIST arg) ete TRACE keeps opening new windows, rather than reusi
6829 6-Nov-86 Programming En Break Package Obsol Minor Bug	ne trace window. ete
21:34:57 vironment 539 6-Apr-84 Programming En Break Package Incomp Perhaps Annoying Design - UI	lete Break middle-button pop-up menu should switch the
	to the break window