

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 extensions 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:)

Numbe	Date:	System:	Subsystem:	Status:	Attn:	Subject:	Priority:	Difficulty	Impact:
6787	4-Nov-86	Common Lisp	File System In	New	Jellinek.pa	CL:OPEN says FILE NOT FOUND for BUSY FILE			
6810	5-Nov-86	Common Lisp	Streams and I/	New	Jellinek	make-synonym-stream core file read fails		Absolutely	
6847	10-Nov-86	Common Lisp	Other	New	vanMelle, W	Making straight common-lisp text files using SEdit		Unlikely	
6987	2-Dec-86	Common Lisp	Streams and I/	New	Jellinek	make-broadcast-stream should check for list arg			
7033	9-Dec-86	Programming En	Code Editor	New	Wozencraft	SEdit global replace breaks			
7067	15-Dec-86	Common Lisp	Streams and I/	New	Jellinek	force-output should flush pages buffered in vmem			
7118	29-Dec-86	Programming En	Code Editor	New	woz	Sizing to fit SEdit window region length		Perhaps	
7168	8-Jan-87	Common Lisp	Other	New		Portable DO-TEST needs expect-errors			
7268	19-Jan-87	Language Suppo	Storage Format	New	vanmelle	SPELLFILE should use FILEDATES prop, but doesn't			
7308	21-Jan-87	Programming En	Break Package	New	Daniels	CL:READ should be in the list of break warning fns			
7436	4-Feb-87	Communications	Other	New	LispCore↑.p	Constant requests for passwords			
7439	4-Feb-87	Common Lisp	Error System	New	Biggs, Dani	Error system documentation needs re-writing			
7448	4-Feb-87	Programming En	Code Editor	New	Wozencraft,	SEdit loses edits of whole lists			
7451	4-Feb-87		New	Fischer	Old-Interlisp-Exec comes up in current pkg&rdtbl				
7486	5-Feb-87	Programming En	Break Package	New	Daniels	debugger "eval:" undocumented			
7522	6-Feb-87		New	Daniels	CERROR missing second param causes random error reporting				
7601	10-Feb-87	Common Lisp	Error System	New	Daniels	unnamed proceed cases break compute-proceed-cases			
7679	12-Feb-87	Common Lisp	Error System	New	Daniels,Big	Version .01 Error System documentation edits			
7680	12-Feb-87	Documentation	Product Descr/	New	Biggs	WHO-LINE mention missing from overview			
7681	12-Feb-87	Text	TEDIT	New	Syabalsky, S	TEDIT not calling EDITBM ?			
7686	12-Feb-87	Documentation	Interlisp Refe	New	Biggs,Sybal	IL => CL function map needed			
7687	12-Feb-87	Programming En	Code Editor	New	Wozencraft	SEdit should reflect a change in readtable			
7696	12-Feb-87	Programming En	Code Editor	New	SeditSuppor	SEdit quits refreshing after soft stack overflow			
5717	27-May-86	Windows and Gr	Window System	Open	Wozencraft.	ATTACHWINDOW JUSTIFY should work for thin			
6789	4-Nov-86	Common Lisp	Streams and I/	Open	Jellinek.pa	make-concatenated-stream core file problem			
6919	18-Nov-86		Open	Jellinek	SETFILEINFO does not take FileName in all cases			Unlikely	
4847	5-Dec-85	Communications	Other	Fixed		FileCache breaks when running init.firsttime		Hopefully	
7098	22-Dec-86	Common Lisp	Streams and I/	Fixed		make-string-input-stream breaks on printed double			
4890	10-Dec-85	Operating Syst	Virtual Memory	Declined		Changing CPE and memory boards gives MP9335			
6797	4-Nov-86		Declined			KEYACTION does not work for MOVE.			
6799	5-Nov-86	Common Lisp	Streams and I/	Declined	Jellinek	make-string-input-stream calls OPENSTRINGSTREAM			
7529	9-Feb-87	Language Suppo	Stack and Inte	Incomplete		il: fetch dwimification problems			

DEBUGGER.ARSUMMARY

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

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

Sorted with Sort Spec: (Status:)

Numbe	Date:	System:	Subsystem:	Status:	Attn:	Subject:	Priority:	Difficulty	Impact:
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6851	10-Nov-86	Programming	En	Break Package	New	masinter	If a u.d.f. has a functions definition, want the d	
	23:07:31	Environment		Feature			efinition to be unsaved, ala Interlisp-D environme	
6981	1-Dec-86	Programming	En	Break Package	New	Fischer.PA	Trace Window Overflow	Hopefully
	08:56:50	Environment		Annoying Bug				
6993	3-Dec-86	Programming	En	Break Package	New	daniels	Bug in debugger: Buttoning "display edit" from the	
	15:57:33	Environment		Hopelessly Moderate Annoying Bug			frame window edits the function cell	
7016	6-Dec-86	Programming	En	Break Package	New	jellinek, d	Want -> = commands for debugger	Unlikely
	07:40:10	Environment		Serious Design - Impl				
7079	17-Dec-86	Programming	En	Break Package	New	daniels	Debugger should skip SI::*UNWIND-PROTECT* frames	
	13:26:10	Environment		Hopelessly Easy Annoying Bug				
7084	17-Dec-86	Programming	En	Break Package	New	daniels, va	BREAK..OK doesn't work under Interlisp exec/profil	
	18:07:17	Environment		Absolutely Bug				
7085	17-Dec-86	Programming	En	Break Package	New	daniels.pa	UNBREAK (foo :in bar) doesn't find uses in subfunc	
	20:36:10	Environment		Absolutely Moderate Serious Bug				
7089	19-Dec-86	Programming	En	Break Package	New	daniels.pa	OPENWP should be on list of unsafe functions to br	
	10:23:56	Environment		Absolutely Easy Fatal Bug				
7097	19-Dec-86	Programming	En	Break Package	New	Daniels	Wrong frame current in broken function in debugger	
	22:36:05	Environment		Hopelessly Moderate Moderate Bug				
7122	29-Dec-86	Programming	En	Break Package	New	Daniels	Break window BT frame window doesn't show arg name	
	13:47:11	Environment		Absolutely Bug				
7213	13-Jan-87	Programming	En	Break Package	New	daniels, pa	Trace replacing old fn defn.	Hopefully
	02:10:08	Environment		Serious Bug				
7215	13-Jan-87	Programming	En	Break Package	New	daniels	Arguments displayed during trace are random.	
	02:16:43	Environment		Perhaps Moderate Feature				
7236	14-Jan-87	Programming	En	Break Package	New	daniels	Information in breakpoint, backtrace, and frame wi	
	16:07:14	Environment		Absolutely Moderate Moderate Bug				
7267	16-Jan-87	Programming	En	Break Package	New	woz	Bad bahavior of backtrace window inspect menu	
	16:06:54	Environment		Unlikely Easy Annoying Design - UI				
7295	20-Jan-87	Programming	En	Break Package	New	Daniels, Bi	Need to finish documentation for the new DEBUGGER	
	17:45:26	Environment		Absolutely Hard Serious Documentation				
7296	20-Jan-87	Programming	En	Break Package	New	Fischer, Bi	New Step and trace need documentation	
	17:48:23	Environment		Absolutely Moderate Serious Documentation				
7308	21-Jan-87	Programming	En	Break Package	New	Daniels	CL:READ should be in the list of break warning fns	
	16:14:01	Environment		Absolutely Design - UI				
7355	26-Jan-87	Programming	En	Break Package	New	Pavel, Dani	Want better support for debugging interpreted code	
	23:27:01	Environment		Design - UI				
7371	28-Jan-87	Programming	En	Break Package	New	Daniels	Stack overflow condition should get normal debugge	
	12:01:49	Environment		Absolutely Moderate Design - UI				
7383	29-Jan-87	Programming	En	Break Package	New	Daniels	ENTER-DEBUGGER-P should say yes for STORAGE-	
	11:41:06	Environment		CONDIT Hopelessly Easy Moderate Design - Impl				
7384	29-Jan-87	Programming	En	Break Package	New		STACK-OVERFLOW errors should get a new window	
	11:43:08	Environment		Hopelessly Easy Annoying Design - Impl				
7402	30-Jan-87	Programming	En	Break Package	New	Daniels	Closing a debugger window does not always abort	
	12:56:11	Environment		Moderate Bug				
7441	4-Feb-87	Programming	En	Break Package	New	Daniels	Can't break Interlisp NLAMBDA's	Absolutely
	14:57:56	Environment		Serious Bug				
7445	4-Feb-87	Programming	En	Break Package	New	Daniels	INSPECTCODE from debugger should always inspect se	
	16:51:54	Environment		Hopelessly Moderate Bug				
7474	4-Feb-87	Programming	En	Break Package	New	Daniels	The debugger should rebind *READ-SUPPRESS* to NIL	
	21:28:01	Environment		Absolutely Easy Serious Bug				
7486	5-Feb-87	Programming	En	Break Package	New	Daniels	debugger "eval:" undocumented	

7510	12:00:08 vironment 5-Feb-87 Programming En Break Package New	Daniels	Debugger gives lexical environment to EVAL too oft
7589	18:22:32 vironment 10-Feb-87 Programming En Break Package New	daniels	Want !EVAL debugger command
7592	15:10:43 vironment 10-Feb-87 Programming En Break Package New		HELPDEPTH no longer controls break depth
7742	17:47:02 vironment 13-Feb-87 Programming En Break Package New	Daniels	ADVISE doesn't work on Common Lisp functions
7748	18:53:10 vironment 13-Feb-87 Programming En Break Package New	Daniels	Want better name for Breakpoint, tracing functions
118	19:25:46 vironment 17-Mar-84 Programming En Break Package Open	Pavel	Want EDIT command in debugger to work even when co
494	0:19:30 vironment 4-Apr-84 Programming En Break Package Open	Masinter	HELPFLAG = BREAK! should cause breaks on every err
1032	11:24:03 vironment 8-May-84 Programming En Break Package Open	Masinter	CML: Want to trace & break macros, like "push, pop
3972	17:21:55 vironment 25-Jun-85 Programming En Break Package Open	Masinter.pa	Want to be able to trace variables at execution ti
4164	12:46:56 vironment 1-Aug-85 Programming En Break Package Open	Biggs, Masi	Want extended documentation of the Break Package
5099	16:18:20 vironment 29-Jan-86 Programming En Break Package Open	Burton	want shift selection from the backtrace menu
6231	10:06:54 vironment 27-Jul-86 Programming En Break Package Open	Masinter	EDIT in break window under Common Lisp won't edit
6542	10:29:22 vironment 29-Sep-86 Programming En Break Package Open	Masinter	TRACE window doesn't hold when page is full
6959	08:56:25 vironment 25-Nov-86 Programming En Break Package Open	Masinter	Can't advise ARGTYPE = 2 functions
6960	15:25:50 vironment 25-Nov-86 Programming En Break Package Open	daniels.pa	Want one-shot breakpoints
7364	15:46:22 vironment 27-Jan-87 Programming En Break Package Open	Daniels	(TRACE) gives ("nil not a function")
7386	19:10:55 vironment 29-Jan-87 Programming En Break Package Open		ADVISE AROUND uses u.d.f. IL:\SAFEAPPLY
7391	13:01:11 vironment 29-Jan-87 Programming En Break Package Open		Want !EVAL in debugger
7618	14:32:21 vironment 11-Feb-87 Programming En Break Package Open	Daniels	BREAK :IN broken
1034	12:36:42 vironment 8-May-84 Programming En Break Package Fixed		TRACE of (C)EXPR*'s fails to show arguments
1035	17:24:30 vironment 8-May-84 Programming En Break Package Fixed		TRACEing shifts (TTYDISPLAYSTREAM) into trace wind
1036	17:25:02 vironment 8-May-84 Programming En Break Package Fixed		Confusing appearance of TRACE's value-return line
1122	17:25:59 vironment 18-May-84 Programming En Break Package Fixed		change STKNARGS, STKARG to see args of Lambda-
1694	12:25:45 vironment 24-Jul-84 Programming En Break Package Fixed		(BREAK (FOO IN BAR)) replaces recordname FOO with
1970	10:04:53 vironment 28-Aug-84 Programming En Break Package Fixed		↑B while a traced function is being executed confu
2478	09:46:40 vironment 19-Oct-84 Programming En Break Package Fixed		RETFROM inside function doesn't unwind break windo
2686	16:47:01 vironment 14-Nov-84 Programming En Break Package Fixed		Repeatable Race break package: causes Break window

20:39:12	vironment				acting like top-level typescript window	
5556	24-Apr-86	Programming En	Break Package	Fixed	AUTOBACKTRACEFLG vs. TRACE	
	Absolutely		Bug			
11:48:47	vironment					
5807	11-Jun-86	Programming En	Break Package	Fixed	AUTOBACKTRACEFLG = ALWAYS breaks TRACE	
	Absolutely		Serious Bug			
09:38:52	vironment					
5940	28-Jun-86	Programming En	Break Package	Fixed	biggs BT in break windows isn't very useful.	Absolutely
	Moderate		Design - Impl			
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			
6445	8-Sep-86	Programming En	Break Package	Fixed	Can't revert from the menu any more	Absolutely
	Moderate		Bug			
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					
6796	4-Nov-86	Programming En	Break Package	Fixed	EVAL in debugger doesn't print result	Absolutely
	Moderate		Design - Impl			
17:59:31	vironment					
6817	6-Nov-86	Programming En	Break Package	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	Fixed	debugger windows pop up on top of one another.	
	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	Fixed	?= under breakpoint shows broken fn, rather than a	
	Absolutely		Bug			
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					
7598	10-Feb-87	Programming En	Break Package	Fixed	↑ out of break under "EVAL" unwinds too far	
	Absolutely		Serious Design - Impl			
19:18:26	vironment					
7599	10-Feb-87	Programming En	Break Package	Fixed	"PROCEED" shows too much, starts at wrong frame	
	Absolutely		Moderate Design - Impl			
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			
14:01:45	vironment				WINDOW-BREAK* from WBREAK to decide whether to sta	
					rt a new window or to use the same one instead of	
					MOVDs when WBREAK(T) or WBREAK(NIL)	
2347	8-Oct-84	Programming En	Break Package	Declined	Break of (REPLACE IN FOO) gives erroneous error me	
	Perhaps		Annoying Design - UI			
14:23:41	vironment				ssage (REPLACE was undefined)	
4102	17-Jul-85	Programming En	Break Package	Declined	want ~ to be treated equivalent to ↑ in break wind	Perhaps
	Annoying		Design - UI			
19:13:39	vironment				ow	
744	17-Apr-84	Programming En	Break Package	Superseded	(Superseded by AR 1035) ↑ out of break can switch	
	Perhaps		Moderate Annoying Design - UI			
16:25:26	vironment				TTY stream to TRACE window	
1740	2-Aug-84	Programming En	Break Package	Superseded	editing under a break (superseded by AR 162)	
	Moderate		Bug			
14:00:53	vironment					
2809	6-Dec-84	Programming En	Break Package	Superseded	(Superseded by AR 5556) Setting	
	AUTOBACKTRACEFLG =		Perhaps		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	Superseded	(Superseded by AR 1035) Display stream switched to
	09:13:59	Perhaps	Annoying Design - Impl		
		viroment			break window when HELPFLAG set to break!
3540	25-Mar-85	Programming En	Break Package	Superseded	(Superseded by AR5556) When
	08:39:38	AUTOBACKTRACEFLG=ALWAY	Hopefully	Moderate Bug	
		viroment		SI, any TRACEd function stops with UNBOUND ATOM TR	
			ACE		
5219	14-Feb-86	Programming En	Break Package	Superseded	superseded by AR494: HELPFLAG = BREAK! doesn't
	11:41:33	alw Absolutely	Moderate Bug		
		viroment		ays work	
6099	16-Jul-86	Programming En	Break Package	Superseded	(Superseded by AR 5556) AUTOBACKTRACEFLG of
		ALWAYS Perhaps	Annoying Bug		
	17:46:31	viroment		or ALWAYS! breaks TRACE	
7011	6-Dec-86	Programming En	Break Package	Superseded	debugger entry frame odd Absolutely
	06:53:47	Serious Design - UI			
		viroment			
7083	17-Dec-86	Programming En	Break Package	Superseded	[SUPERSEDED BY 7121] ?= doesn't work for il:broken
		Absolutely	Bug		
	18:01:11	viroment		fns	
7247	15-Jan-87	Programming En	Break Package	Superseded	Superseded by AR7236: Frame inspector window in De
		Absolutely Moderate	Serious Bug		
	19:16:18	viroment		bugger always uses IL package, readtable	
311	27-Mar-84	Programming En	Break Package	Obsolete	HELPPFIX is calling EDITE with Type=FNS when there
		Absolutely Easy	Annoying Design - UI		
	9:29:34	viroment		is no fn	
2223	21-Sep-84	Programming En	Break Package	Obsolete	BREAK frame window opens twice Perhaps
		Annoying Design - Impl			
	15:09:15	viroment			
2533	30-Oct-84	Programming En	Break Package	Obsolete	Break window becomes Toplevel
		Moderate Bug			
	09:41:33	viroment			
2598	7-Nov-84	Programming En	Break Package	Obsolete	Got UNBOUND ATOM "↑" and "?=" in break window
		Perhaps	Annoying Bug		
	17:07:01	viroment			
2614	8-Nov-84	Programming En	Break Package	Obsolete	MaxBkMenuHeight no longer effective Perhaps
		Minor Bug			
	14:55:36	viroment			
2928	19-Dec-84	Programming En	Break Package	Obsolete	Break window frame inspect window opened twice whe
		Perhaps	Minor Performance		
	08:09:37	viroment		n first created	
2968	29-Dec-84	Programming En	Break Package	Obsolete	REVERT to Nlambda-nospread with LOCALVAR arg
		trans Absolutely	Moderate Bug		
	10:47:57	viroment		forms arg to (LIST arg)	
6538	26-Sep-86	Programming En	Break Package	Obsolete	TRACE keeps opening new windows, rather than reusi
		Absolutely	Serious Bug		
	18:23:55	viroment		ng one trace window.	
6829	6-Nov-86	Programming En	Break Package	Obsolete	CLOSEW of a breakwindow sends ↑ instead of il:↑
		Minor Bug			
	21:34:57	viroment			
539	6-Apr-84	Programming En	Break Package	Incomplete	Break middle-button pop-up menu should switch the
		Perhaps	Annoying Design - UI		
	10:20:11	viroment		TTY to the break window	