

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

	12:00:08 vironment								
7510	5-Feb-87 Programming En Break Package New	Absolutely Moderate Bug	Daniels	Debugger gives lexical environment to EVAL too oft					
	18:22:32 vironment								
7589	10-Feb-87 Programming En Break Package New	Feature	daniels	Want !EVAL debugger command					
	15:10:43 vironment								
7592	10-Feb-87 Programming En Break Package New			HELPDEPTH no longer controls break depth					
	17:47:02 vironment								
7742	13-Feb-87 Programming En Break Package New	Absolutely Serious Bug	Daniels	ADVISE doesn't work on Common Lisp functions					
	18:53:10 vironment								
7748	13-Feb-87 Programming En Break Package New	Hopefully Easy Minor Feature	Daniels	Want better name for Breakpoint, tracing functions					
	19:25:46 vironment								
118	17-Mar-84 Programming En Break Package Open	Perhaps Hard Moderate Feature	Pavel	Want EDIT command in debugger to work even when co					
	0:19:30 vironment			de is compiled.					
494	4-Apr-84 Programming En Break Package Open	Absolutely Moderate Feature	Masinter	HELPFLAG = BREAK! should cause breaks on every err					
	11:24:03 vironment			or					
1032	8-May-84 Programming En Break Package Open	Unlikely Moderate Annoying Feature	Masinter	CML: Want to trace & break macros, like "push, pop					
	17:21:55 vironment			" etc					
3972	25-Jun-85 Programming En Break Package Open	Perhaps Moderate Feature	Masinter.pa	Want to be able to trace variables at execution ti					
	12:46:56 vironment			me					
4164	1-Aug-85 Programming En Break Package Open	Absolutely Hard Annoying Documentation	Biggs, Masi	Want extended documentation of the Break Package					
	16:18:20 vironment			nter.pa					
5099	29-Jan-86 Programming En Break Package Open	Unlikely Minor Feature	Burton	want shift selection from the backtrace menu					
	10:06:54 vironment								
6231	27-Jul-86 Programming En Break Package Open	Hopefully Moderate Serious Feature	Masinter	EDIT in break window under Common Lisp won't edit					
	10:29:22 vironment			the expression					
6542	29-Sep-86 Programming En Break Package Open	Hopefully Annoying Feature	Masinter	TRACE window doesn't hold when page is full					
	08:56:25 vironment								
6959	25-Nov-86 Programming En Break Package Open	Absolutely Fatal Bug	Masinter	Can't advise ARGTYPE = 2 functions					
	15:25:50 vironment								
6960	25-Nov-86 Programming En Break Package Open	Moderate Feature	daniels.pa	Want one-shot breakpoints					Unlikely
	15:46:22 vironment								
7364	27-Jan-87 Programming En Break Package Open	Serious Bug	Daniels	(TRACE) gives ("nil not a function")					
	19:10:55 vironment								
7386	29-Jan-87 Programming En Break Package Open	Absolutely Fatal Bug		ADVISE AROUND uses u.d.f. IL:\SAFEAPPLY					
	13:01:11 vironment								
7391	29-Jan-87 Programming En Break Package Open	Moderate Design - Impl		Want !EVAL in debugger					
	14:32:21 vironment								
7618	11-Feb-87 Programming En Break Package Open	Serious Design - Impl	Daniels	BREAK :IN broken					Absolutely
	12:36:42 vironment								
1034	8-May-84 Programming En Break Package Fixed	Perhaps Easy Serious Design - UI		TRACE of (C)EXPR*'s fails to show arguments					
	17:24:30 vironment								
1035	8-May-84 Programming En Break Package Fixed	Absolutely Moderate Moderate Bug		TRACEing shifts (TTYDISPLAYSTREAM) into trace wind					
	17:25:02 vironment								
1036	8-May-84 Programming En Break Package Fixed	Hopefully Moderate Annoying Design - UI		Confusing appearance of TRACE's value-return line					
	17:25:59 vironment								
1122	18-May-84 Programming En Break Package Fixed	nosp Perhaps Moderate Design - UI		change STKNARGS, STKARG to see args of Lambda-					
	12:25:45 vironment			read (for break)					
1694	24-Jul-84 Programming En Break Package Fixed	Unlikely Hard Moderate Bug		(BREAK (FOO IN BAR)) replaces recordname FOO with					
	10:04:53 vironment			FOO-IN-BAR in CREATE					
1970	28-Aug-84 Programming En Break Package Fixed	Absolutely Moderate Design - UI		^B while a traced function is being executed confu					
	09:46:40 vironment			ses break package					
2478	19-Oct-84 Programming En Break Package Fixed	Absolutely Annoying Bug		RETFROM inside function doesn't unwind break windo					
	16:47:01 vironment			ws					
2686	14-Nov-84 Programming En Break Package Fixed	Absolutely Moderate Bug		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	
	11:48:47	vironment							
5807	11-Jun-86	Programming En	Break Package	Fixed				AUTOBACKTRACEFLG = ALWAYS breaks TRACE	
	09:38:52	vironment							
5940	28-Jun-86	Programming En	Break Package	Fixed	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	
	11:03:28	vironment							
6128	19-Jul-86	Programming En	Break Package	Fixed				Want to be able to include 1-cell arglist debuggin	Absolutely
	04:17:22	vironment							
6445	8-Sep-86	Programming En	Break Package	Fixed				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	
	09:44:31	vironment							
6796	4-Nov-86	Programming En	Break Package	Fixed				EVAL in debugger doesn't print result	Absolutely
	17:59:31	vironment							
6817	6-Nov-86	Programming En	Break Package	Fixed				Backtrace windows (and printed backtraces) show to	
	12:33:52	vironment							
6818	6-Nov-86	Programming En	Break Package	Fixed				Stack frame display for CL EVAL frames should show	
	12:40:05	vironment							
6927	19-Nov-86	Programming En	Break Package	Fixed				debugger windows pop up on top of one another.	
	11:54:28	vironment							
6952	24-Nov-86	Programming En	Break Package	Fixed				PAGEHEIGHT remains debugger window height after de	
	12:01:36	vironment							
7121	29-Dec-86	Programming En	Break Package	Fixed				?= under breakpoint shows broken fn, rather than a	
	13:44:59	vironment							
7155	7-Jan-87	Programming En	Break Package	Fixed	Fischer			Debugger BTV! command :print-junk option broken	
	11:23:37	vironment							
7329	23-Jan-87	Programming En	Break Package	Fixed				Help info on debugger menu is "NIL"	Hopefully
	18:09:49	vironment							
7598	10-Feb-87	Programming En	Break Package	Fixed				^ out of break under "EVAL" unwinds too far	Absolutely
	19:18:26	vironment							
7599	10-Feb-87	Programming En	Break Package	Fixed				"PROCEED" shows too much, starts at wrong frame	
	19:22:56	vironment							
6237	28-Jul-86	Programming En	Break Package	Closed				Change break package uses a special variable to *	
	14:01:45	vironment							
2347	8-Oct-84	Programming En	Break Package	Declined				WINDOW-BREAK* from WBREAK to decide whether to sta	
	14:23:41	vironment							
4102	17-Jul-85	Programming En	Break Package	Declined				rt a new window or to use the same one instead of	
	19:13:39	vironment							
744	17-Apr-84	Programming En	Break Package	Superseded				ssage (REPLACE was undefined)	
	16:25:26	vironment							
1740	2-Aug-84	Programming En	Break Package	Superseded				MOVDs when WBREAK(T) or WBREAK(NIL)	
	14:00:53	vironment						Break of (REPLACE IN FOO) gives erroneous error me	
2809	6-Dec-84	Programming En	Break Package	Superseded				TTY stream to TRACE window	
	09:56:17	vironment						editing under a break (superseded by AR 162)	
2863	12-Dec-84	Programming En	Break Package	Superseded				(Superseded by AR 1035) ^ out of break can switch	
	16:10:44	vironment							
2967	29-Dec-84	Programming En	Break Package	Superseded				(Superseded by AR 5556) Setting	
	08:52:57	vironment							
								ALWAYS causes a break when a traced fn is called:	
								"TRACE - UNBOUND ATOM"	
								Harmony: tracing functions (superceded by AR	
								2863)	
								(Superseded by AR 1035) BREAK windows can be left	
								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		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		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		ays work
6099	16-Jul-86	Programming	En	Break Package	Superseded	(Superseded by AR 5556) AUTOBACKTRACEFLG of
	17:46:31	ALWAYS Perhaps		Annoying Bug		or ALWAYS! breaks TRACE
7011	6-Dec-86	Programming	En	Break Package	Superseded	debugger entry frame odd Absolutely
	06:53:47	Serious Design - UI				
7083	17-Dec-86	Programming	En	Break Package	Superseded	[SUPERSEDED BY 7121] ?= doesn't work for il:broken
	18:01:11	Absolutely		Bug		fns
7247	15-Jan-87	Programming	En	Break Package	Superseded	Superseded by AR7236: Frame inspector window in De
	19:16:18	Absolutely Moderate		Serious Bug		bugger always uses IL package, readtable
311	27-Mar-84	Programming	En	Break Package	Obsolete	HELFPFIX is calling EDITE with Type=FNS when there
	9:29:34	Absolutely Easy		Annoying Design - UI		is no fn
2223	21-Sep-84	Programming	En	Break Package	Obsolete	BREAK frame window opens twice Perhaps
	15:09:15	Annoying Design - Impl				
2533	30-Oct-84	Programming	En	Break Package	Obsolete	Break window becomes Toplevel
	09:41:33	Moderate Bug				
2598	7-Nov-84	Programming	En	Break Package	Obsolete	Got UNBOUND ATOM "^" and "?=" in break window
	17:07:01	Perhaps		Annoying Bug		
2614	8-Nov-84	Programming	En	Break Package	Obsolete	MaxBkMenuHeight no longer effective Perhaps
	14:55:36	Minor Bug				
2928	19-Dec-84	Programming	En	Break Package	Obsolete	Break window frame inspect window opened twice whe
	08:09:37	Perhaps		Minor Performance		n first created
2968	29-Dec-84	Programming	En	Break Package	Obsolete	REVERT to Nlambda-nospread with LOCALVAR arg
	10:47:57	trans Absolutely		Moderate Bug		forms arg to (LIST arg)
6538	26-Sep-86	Programming	En	Break Package	Obsolete	TRACE keeps opening new windows, rather than reusi
	18:23:55	Absolutely		Serious Bug		ng one trace window.
6829	6-Nov-86	Programming	En	Break Package	Obsolete	CLOSEW of a breakwindow sends ^ instead of il:^
	21:34:57	Minor Bug				
539	6-Apr-84	Programming	En	Break Package	Incomplete	Break middle-button pop-up menu should switch the
	10:20:11	Perhaps		Annoying Design - UI		TTY to the break window