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:)

Numbe	Date:	System:	Subsystem:	Status:	Attn:	Subject:	Priority:	Difficulty	Impact: Problem Type:
6787	4-Nov-86	Common Lisp	File System In	New	Jellinek.pa	CL:OPEN says FILE NOT FOUND for BUSY FILE			Absolutely
6810	5-Nov-86	Common Lisp	Streams and I/	New	Jellinek	make-synonym-stream core file read fails		Absolutely	Bug
6847	10-Nov-86	Common Lisp	Other	New	vanMelle, W	Making straight common-lisp text files using SEdit	Unlikely Hard	Feature	
6987	2-Dec-86	Common Lisp	Streams and I/	New	Jellinek	make-broadcast-stream should check for list arg		Absolutely	Bug
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		Serious	
7118	29-Dec-86	Programming En	Code Editor	New	woz	Sizing to fit SEdit window region length		Perhaps	Feature
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	Hopefully		Bug
7308	21-Jan-87	Programming En	Break Package	New	Daniels	CL:READ should be in the list of break warning fns	Absolutely	Design - UI	
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 looses 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		Minor	
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 windows	Hopefully	Moderate	Bug
6789	4-Nov-86	Common Lisp	Streams and I/	Open	Jellinek.pa	make-concatenated-stream core file problem		Absolutely	
6919	18-Nov-86			Open	Jellinek	SETFILEINFO does not take FileName in all cases	Unlikely		Bug
4847	5-Dec-85	Communications	Other	Fixed		FileCache breaks when running init.firsttime	Hopefully	Moderate	Bug
7098	22-Dec-86	Common Lisp	Streams and I/	Fixed		make-string-input-stream breaks on printed double		Absolutely	Bug
4890	10-Dec-85	Operating Syst	Virtual Memory	Declined		Changing CPE and memory boards gives MP9335	Hopefully	Moderate	Bug
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 with unconverted string	Absolutely		Bug
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: Problem Type:

6851	10-Nov-86	Programming En	Break Package	New		masinter	If a u.d.f. has a functions definition, want the d
	Absolutely		Feature				
	23:07:31	vironment					efinition to be unsaved, ala Interlisp-D environme
							nt.
6981	1-Dec-86	Programming En	Break Package	New		Fischer.PA	Trace Window Overflow Hopefully
	Annoying	Bug					
	08:56:50	vironment					
6993	3-Dec-86	Programming En	Break Package	New		daniels	Bug in debugger: Buttoning "display edit" from the
	Hopefully	Moderate	Annoying	Bug			
	15:57:33	vironment					frame window edits the function cell
7016	6-Dec-86	Programming En	Break Package	New		jellinek, d	Want -> = commands for debugger Unlikely
	Serious	Design - Impl					
	07:40:10	vironment				aniels, big	
				gs			
7079	17-Dec-86	Programming En	Break Package	New		daniels	Debugger should skip SI::*UNWIND-PROTECT* frames
	i Hopefully	Easy	Annoying	Bug			
	13:26:10	vironment					n reporting errors
7084	17-Dec-86	Programming En	Break Package	New		daniels, va	BREAK..OK doesn't work under Interlisp exec/profil
	Absolutely		Bug				
	18:07:17	vironment				nMelle	e--uses wrong evaluator, gets uba BROKEN
7085	17-Dec-86	Programming En	Break Package	New		daniels.pa	UNBREAK (foo :in bar) doesn't find uses in subfunc
	Absolutely	Moderate	Serious	Bug			
	20:36:10	vironment				tions	
7089	19-Dec-86	Programming En	Break Package	New		daniels.pa	OPENWP should be on list of unsafe functions to br
	Absolutely	Easy	Fatal	Bug			
	10:23:56	vironment				eak	
7097	19-Dec-86	Programming En	Break Package	New		Daniels	Wrong frame current in broken function in debugger
	Hopefully	Moderate	Moderate	Bug			
	22:36:05	vironment					
7122	29-Dec-86	Programming En	Break Package	New		Daniels	Break window BT frame window doesn't show arg name
	Absolutely		Bug				
	13:47:11	vironment					s for broken fn.
7213	13-Jan-87	Programming En	Break Package	New		daniels, pa	Trace replacing old fn defn. Hopefully
	Serious	Bug					
	02:10:08	vironment				vel	
7215	13-Jan-87	Programming En	Break Package	New		daniels	Arguments displayed during trace are random.
	Perhaps		Moderate	Feature			
	02:16:43	vironment					
7236	14-Jan-87	Programming En	Break Package	New		daniels	Information in breakpoint, backtrace, and 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	New		woz	Bad bahavior of backtrace window inspect menu
	Unlikely	Easy	Annoying	Design - UI			
	16:06:54	vironment					
7295	20-Jan-87	Programming En	Break Package	New		Daniels, Bi	Need to finish documentation for the new DEBUGGER
	Absolutely	Hard	Serious	Documentation			
	17:45:26	vironment				ggs	
7296	20-Jan-87	Programming En	Break Package	New		Fischer, Bi	New Step and trace need documentation
	Absolutely	Moderate	Serious	Documentation			
	17:48:23	vironment				ggs	
7308	21-Jan-87	Programming En	Break Package	New		Daniels	CL:READ should be in the list of break warning fns
	Absolutely		Design - UI				
	16:14:01	vironment					
7355	26-Jan-87	Programming En	Break Package	New		Pavel, Dani	Want better support for debugging interpreted code
	Design - UI						
	23:27:01	vironment				els	
7371	28-Jan-87	Programming En	Break Package	New		Daniels	Stack overflow condition should get normal debugge
	Absolutely		Moderate	Design - UI			
	12:01:49	vironment					r window
7383	29-Jan-87	Programming En	Break Package	New		Daniels	ENTER-DEBUGGER-P should say yes for STORAGE-
	CONDIT	Hopefully	Easy	Moderate	Design - Impl		
	11:41:06	vironment				IONs	
7384	29-Jan-87	Programming En	Break Package	New			STACK-OVERFLOW errors should get a new window
	Hopefully	Easy	Annoying	Design - Impl			
	11:43:08	vironment					
7402	30-Jan-87	Programming En	Break Package	New		Daniels	Closing a debugger window does not always abort
	Moderate	Bug					
	12:56:11	vironment					
7441	4-Feb-87	Programming En	Break Package	New		Daniels	Can't break Interlisp NLAMBDAs Absolutely
	Serious	Bug					
	14:57:56	vironment					
7445	4-Feb-87	Programming En	Break Package	New		Daniels	INSPECTCODE from debugger should always inspect se
	Hopefully		Moderate	Bug			
	16:51:54	vironment					lected frame
7474	4-Feb-87	Programming En	Break Package	New		Daniels	The debugger should rebind *READ-SUPPRESS* to NIL
	Absolutely	Easy	Serious	Bug			
	21:28:01	vironment					
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   Daniels   Debugger gives lexical environment to EVAL too oft
       Absolutely   Moderate Bug
18:22:32 vironment   en
7589 10-Feb-87 Programming En Break Package New   daniels   Want !EVAL debugger command
       Feature
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   Daniels   ADVISE doesn't work on Common Lisp functions
       Absolutely   Serious Bug
18:53:10 vironment
7748 13-Feb-87 Programming En Break Package New   Daniels   Want better name for Breakpoint, tracing functions
       Hopefully Easy   Minor   Feature
19:25:46 vironment
118   17-Mar-84 Programming En Break Package Open   Pavel   Want EDIT command in debugger to work even when co
       Perhaps Hard   Moderate Feature
0:19:30 vironment   de is compiled.
494   4-Apr-84 Programming En Break Package Open   Masinter   HELPFLAG = BREAK! should cause breaks on every err
       Absolutely   Moderate Feature
11:24:03 vironment   or
1032   8-May-84 Programming En Break Package Open   Masinter   CML: Want to trace & break macros, like "push, pop
       Unlikely Moderate Annoying Feature
17:21:55 vironment   " etc
3972 25-Jun-85 Programming En Break Package Open   Masinter.pa Want to be able to trace variables at execution ti
       Perhaps   Moderate Feature
12:46:56 vironment   me
4164   1-Aug-85 Programming En Break Package Open   Biggs, Masi Want extended documentation of the Break Package
       Absolutely Hard   Annoying Documentation
16:18:20 vironment   nter.pa
5099 29-Jan-86 Programming En Break Package Open   Burton   want shift selection from the backtrace menu
       Unlikely   Minor   Feature
10:06:54 vironment
6231 27-Jul-86 Programming En Break Package Open   Masinter   EDIT in break window under Common Lisp won't edit
       Hopefully Moderate Serious Feature
10:29:22 vironment   the expression
6542 29-Sep-86 Programming En Break Package Open   Masinter   TRACE window doesn't hold when page is full
       Hopefully   Annoying Feature
08:56:25 vironment
6959 25-Nov-86 Programming En Break Package Open   Masinter   Can't advise ARGTYPE = 2 functions
       Absolutely   Fatal   Bug
15:25:50 vironment
6960 25-Nov-86 Programming En Break Package Open   daniels.pa   Want one-shot breakpoints   Unlikely
       Moderate Feature
15:46:22 vironment
7364 27-Jan-87 Programming En Break Package Open   Daniels   (TRACE) gives ("nil not a function")
       Serious Bug
19:10:55 vironment
7386 29-Jan-87 Programming En Break Package Open   ADVISE AROUND uses u.d.f. IL:\\SAFEAPPLY
       Absolutely   Fatal   Bug
13:01:11 vironment
7391 29-Jan-87 Programming En Break Package Open   Want !EVAL in debugger
       Moderate Design - Impl
14:32:21 vironment
7618 11-Feb-87 Programming En Break Package Open   Daniels   BREAK :IN broken   Absolutely
       Serious Design - Impl
12:36:42 vironment
1034   8-May-84 Programming En Break Package Fixed   TRACE of (C)EXPR*'s fails to show arguments
       Perhaps Easy   Serious   Design - UI
17:24:30 vironment
1035   8-May-84 Programming En Break Package Fixed   TRACEing shifts (TTYDISPLAYSTREAM) into trace wind
       Absolutely Moderate Moderate Bug
17:25:02 vironment   ow
1036   8-May-84 Programming En Break Package Fixed   Confusing appearance of TRACE's value-return line
       Hopefully Moderate Annoying Design - UI
17:25:59 vironment
1122 18-May-84 Programming En Break Package Fixed   change STKNARGS, STKARG to see args of Lambda-
       nosp Perhaps   Moderate Design - UI
12:25:45 vironment   read (for break)
1694 24-Jul-84 Programming En Break Package Fixed   (BREAK (FOO IN BAR)) replaces recordname FOO with
       Unlikely Hard   Moderate Bug
10:04:53 vironment   FOO-IN-BAR in CREATE
1970 28-Aug-84 Programming En Break Package Fixed   ^B while a traced function is being executed confu
       Absolutely   Moderate Design - UI
09:46:40 vironment   ses break package
2478 19-Oct-84 Programming En Break Package Fixed   RETFROM inside function doesn't unwind break windo
       Absolutely   Annoying Bug
16:47:01 vironment   ws
2686 14-Nov-84 Programming En Break Package Fixed   Repeatable Race break package: causes Break window
       Absolutely   Moderate Bug

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
         Perhaps   Annoying   Design - Impl
      09:13:59 vironment   break window when HELPFLAG set to break!
3540 25-Mar-85 Programming En Break Package Superseded   (Superseded by AR5556) When
         AUTOBACKTRACEFLG=ALWAY Hopefully   Moderate   Bug
      08:39:38 vironment   S!, 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
         alw Absolutely   Moderate   Bug
      11:41:33 vironment   ays work
6099 16-Jul-86 Programming En Break Package Superseded   (Superseded by AR 5556) AUTOBACKTRACEFLG of
         ALWAYS Perhaps   Annoying   Bug
      17:46:31 vironment   or ALWAYS! breaks TRACE
7011   6-Dec-86 Programming En Break Package Superseded   debugger entry frame odd   Absolutely
         Serious   Design - UI
      06:53:47 vironment
7083 17-Dec-86 Programming En Break Package Superseded   [SUPERSEDED BY 7121] ?= doesn't work for il:broken
         Absolutely   Bug
      18:01:11 vironment   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 vironment   bugger always uses IL package, readtable
311   27-Mar-84 Programming En Break Package Obsolete   HELPFIX is calling EDITE with Type=FNS when there
         Absolutely Easy   Annoying   Design - UI
       9:29:34 vironment   is no fn
2223 21-Sep-84 Programming En Break Package Obsolete   BREAK frame window opens twice   Perhaps
         Annoying   Design - Impl
      15:09:15 vironment
2533 30-Oct-84 Programming En Break Package Obsolete   Break window becomes Toplevel
         Moderate   Bug
      09:41:33 vironment
2598   7-Nov-84 Programming En Break Package Obsolete   Got UNBOUND ATOM "^" and "?=" in break window
         Perhaps   Annoying   Bug
      17:07:01 vironment
2614   8-Nov-84 Programming En Break Package Obsolete   MaxBkMenuHeight no longer effective   Perhaps
         Minor   Bug
      14:55:36 vironment
2928 19-Dec-84 Programming En Break Package Obsolete   Break window frame inspect window opened twice whe
         Perhaps   Minor   Performance
      08:09:37 vironment   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 vironment   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 vironment   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 vironment
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 vironment   TTY to the break window