

MEDLEY 1.15-S RELEASE NOTES



**Release 1.15
400100
April, 1990**

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MEDLEY 1.15-S RELEASE NOTES

These release notes provide warnings and information important to the successful running of Release 1.15-S of Medley for the Sun Workstation. These sections are followed by listings of known and fixed bugs in Release 1.15 of Medley.

Warnings

The TCP software and documentation have changed extensively. Be sure to read the Fixed Bugs items preceded by an asterisk (*) before using TCP.

Following is a listing of warnings based on the current performance of Medley 1.15-S. They are listed in Action Request (AR) numerical order.

- 9352** Using **DEFSTRUCT** to define a structure whose name is the same as any built-in data type will cause unpredictable problems. DO NOT USE IT. There is no workaround.
- 11077** UNIX passwords are case sensitive. Be sure to enter your password exactly as originally established, otherwise it will not be recognized as authentic.
- 11100** Because of a bug in SunOS 4.0 and 4.0.1, Medley cannot detect whether it is running on a workstation with a Type 4 keyboard. To make it work right on your workstation enter the following before you start running Medley:

setenv LDEKBDTYPE type4

Information

Following is a listing of information you will need to successfully run Release 1.15-S for the Sun Workstation. These information notes are listed in Action Request (AR) numerical order.

- 4371** (**STREAMPROP *stream prop new-value***) lets you store arbitrary information on a stream, akin to the property list.

stream Stream to save it on

prop Property name

new-value If specified, the property is set to that value. If not specified, it returns the old value for that property.

- 7026** Display streams have no file name associated with them. Therefore, things like **PATHNAME-NAME** will return NIL.
- 8658** The maximum value of variables **CURSORWIDTH** and **CURSOR-HEIGHT** is 16. If these variables are set greater than 16 (even if the bitmap argument to **CURSORCREATE** has the same dimensions), the bitmap copied to the cursor is clipped to 16 x 16.
- 9042** The default screen display font is Gacha 10. However, that font will print as Terminal 8, not Terminal 10. Terminal 10 does not exist.
- 10231** TEdit currently does not handle versionless file devices. Therefore, you cannot edit in place a document on the UNIX device, since the attempt to open the current file will overwrite the file. Instead, copy the file to another device (e.g., {CORE} for a small file) and use TEdit there instead.
- 10611** **GREET** searches for INIT files in the following order:
- | Lyric & Medley | Koto & Earlier |
|----------------|----------------|
| INIT.DFASL | INIT.LCOM |
| INIT.LCOM | INIT.LISP |
| INIT.LISP | |
- 10859** Some fonts do not contain all possible characters (e.g., Gacha does not contain a pound sterling symbol (£) but Classic does). To obtain the desired character, you will need to indicate both the current display font set and the font set to be searched for that character by setting the variable **MISSINGCHARSET-DISPLAYFONTCOERCIONS**. The variables must be shown in pairs—the current font followed by the alternate font.

Example:

```
(SETQ foo '(((GACHA)(CLASSIC))
            ((TERMINAL 12)(CLASSIC 18))))
```

means

GACHA	Name of a display font
CLASSIC	Name of font in which to look if the character does not exist in GACHA
TERMINAL 12	Name and size of a display font
CLASSIC 18	Name and size of font in which to look if the character does not exist in TERMINAL 12

10966 Under SunOS 4.0, the Type 4 keyboard ALT/GRAPH key is not accessible, and therefore there is no mechanism for Uraid's emergency interrupt.

Workaround: Use the CTRL-SHIFT-RETURN key combination as an emergency interrupt.

11040 Expressions within SEdit get incorrectly expanded.

This happens because SEdit's EXPAND command (Meta-X) is not correctly applied. The selected form is replaced by its "expansion" as follows:

- A macro invocation is replaced by the expanded macro.
- A function call is replaced by the function's definition with arguments substituted in-line.
- A CLISP form is DWIMified.
- A **CL:IF** is converted to a **COND**.
- A **LET** has its local variables replaced by their initial bindings.
- A form ((**LAMBDA** - ...) **args**) is replaced by a **LET**, with the LAMBDA's formal parameters bound to the respective arguments.

These last two substitutions do not necessarily preserve the semantics of the original expression. Use them—carefully—if you are expanding function calls in-line.

11059 (**WITHOUT-UPDATES** *textobj scratch-sel &body forms*) runs forms with TEdit screen update disabled. It then does one all-encompassing update at the end. (This macro is defined in the new TEDITDECLS.)

textobj should be a variable name containing the TEXTOBJ for the document.

scratch-sel should be a variable name containing the SCRATCHSEL field of that TEXTOBJ.

forms should be the Lisp forms to be executed.

Known Bugs

The following is a list of known bugs in Medley 1.15-S. Bugs are listed in Action Request (AR) numerical order. Each AR in this list has an explanation of the problem and, where appropriate, a workaround.

831 FILE NOT FOUND error in FONTCREATE not continuable.

When **FONTCREATE** fails to find the font file requested, it generates a FILE NOT FOUND error with the name of the most specific file tried. Since the filename in question is not supplied as an argument to **FONTCREATE**, the error mechanism cannot figure out how to fix it.

Workaround: Revert to the **FONTCREATE** frame and say OK after setting **DISPLAYFONTDIRECTORIES** or **INTERPRESSFONTDIRECTORIES** appropriately.

8268 Switching CHAT terminal modes with menu doesn't work.

After loading TEDITCHAT, the middle button menu in the DM2500 CHAT sessions with other hosts offered the option of switching back and forth between DM2500 and TEDIT mode. If you try to switch to TEDIT mode, CHAT breaks and produces a "HELP! SHOULDN'T HAPPEN" error message.

Workaround: Close CHAT, change **IL:CHAT.DISPLAYTYPES**, and reopen it.

8549 Can't save advice for non-Interlisp functions with "-IN-" in name.

For backward compatibility, names of the form FOO-IN-BAR in File Manager ADVISE commands are treated as (FOO:IN:BAR).

Workaround: This should only be done when the symbol FOO-IN-BAR is in the IL package. Otherwise, non-Interlisp functions that happen to be in that form cannot have their advise saved.

8592 TEdit PUT into an open stream closes the stream.

When **TEDIT.PUT** is called and its FILE argument is an open stream, the PUT occurs and the stream is closed. It should remain open.

8929 DETACHWINDOW and DETACHALLWINDOWS do not work if the attached windows are closed.

DETACHALLWINDOWS and **DETACHWINDOW** do not work if the attached window is closed.

Workaround: Call **OPENW** on the attached window before using **DETACHALLWINDOWS** or **DETACHWINDOW**.

9369 (OPEN "{NULL}") breaks; it should not.

(**OPEN "{NULL}"**) breaks with a FILE NOT FOUND error, while (**IL:OPENSTREAM "{NULL}" 'INPUT**), the Interlisp equivalent, returns an input stream on an empty file.

Workaround: Use an empty core file instead. This workaround only works for input. For **:OUTPUT** or **:IO**, this will not work.

9406 Byte-compiled global variable sets do not pop; can result in stack overflow .

The compiler gets the stack depth wrong on global variable sets. If you have one in a loop, you can get a net push around the loop, eventually resulting in a stack overflow.

9414 NSFiling does not release file handles despite CLOSEF, so cannot delete or rename from elsewhere.

If you write to an NS file server (e.g., **COPYFILE**, **MAKEFILE**, etc.), and have properly closed the file (**CLOSEF**), a ViewPoint user on the same network cannot delete or move this file. You get the following error: NSFILE ACCESS PROBLEM: FILEINUSE.

Workaround: (**BREAK.NSFILING.CONNECTION host**) before trying to manipulate the file from elsewhere. **BREAKCONNECTION** also works.

9437 Lisp Leaf and FTP code cannot access extensionless files that end in a period.

Lisp cannot access files on an IFS whose real names end in a period. Such files apparently arise from non-Lisp software transferring files and naming with a terminal period those that lack an extension. On the other hand, Lisp always removes terminal periods.

Workaround: Chat to the IFS and rename the file.

9471 COMPVARMACROHASH retains CONSTANT declarations after COMPILE-FILE.

If you **COMPILE-FILE** a file, any constant declarations in it go into **COMPVARMACROHASH** and stay there. If you then change the file to make something no longer a constant, it will have no effect, because the previous constant declaration in **COMPVARMACROHASH** will not be removed.

Workaround: Change **COMPVARMACROHASH** manually. You can use (**CLRHASH COMPVARMACRO**).

11087 XCL:RECORD-FETCH does not work with generalized SETF.

Although **XCL:RECORD-FETCH** works correctly with SETF, it does not work with any of the generalized SETF macros; bogus substitution occurs. For example:

```
(DECF (RECORD-FETCH REGION HEIGHTX))
```

expands into

(LET* ((IL:A0199 REGION)
(IL:A0200 HEIGHT)
(IL:A0201 X)
(IL:A0198 (- (RECORD-FETCH IL:A0199 IL:A0200 IL:A0201 1))))
(XCL::SETF-FETCH IL:A0199 IL:A0200 IL:A0201 IL:A0198))

This has a hard time expanding the inner **RECORD-FETCH**. The same is true for **INCF**, **ROTATEF**, and **SHIFTF**.

11102 (FQUOTIENT 0.0 0.0) should obey \OVERFLOW, and not always return 0.0

Floating-point division of 0.0 by 0.0 returns 0.0 instead of obeying Interlisp's **\OVERFLOW** flag.

Fixed Bugs

The following is a list of bugs fixed in Release 1.15-S. Bugs are listed in Action Request (AR) numerical order. Where applicable, the item includes an explanation of the bug as it occurred in prior Medley releases, followed by how it has been fixed for the current release.

NOTE: AR numbers preceded by an asterisk (*) refer to TCP. These items should be read before using TCP, since the changes are substantive and affect its behavior.

3525 TEdit's folio and page-heading placement are not consistent.

Prior: Alignment of page heads was specified in terms of the top of the first line. Folios were aligned in terms of the baseline.

Current: Both page heads and folios are now specified in terms of the baseline using the Page Layout Menu.

*** 5396 Site installation guide for TCP/FTP, DEI should explain about setting EOL convention.**

Prior: When using **COPYFILE** to a VMS system, it copied to the login directory as expected. However, there were extra blank lines after every line of text.

Current: This has been fixed using a switch called **TCPFTP . - EOL.CONVENTION**. There is also an associated function, which takes one argument—**TYPE**—which sets it correctly. **TYPE** can be one of the following:

CR	Set EOL to CR
LF	Set EOL to LF
CRLF	Set EOL to CRLF
OS	Set it to something based on the OS
Anything else	Set EOL to the default (CRLF)

*** 7676 Want TCP to ignore extraneous ACKs.**

Prior: The TCP software did not work with many UNIX or Sun hosts because some TCP servers ACK'ed too frequently.

Current: TCP now ignores extraneous TCP ACKnowledgments.

*** 8683 Want documentation of TCP DOMAIN.**

Prior: TCPDOMAIN was included in the Lyric Library, but there was no documentation on how to use it.

Current: How-to documentation for TCPDOMAIN has been added to the Lisp Library Modules TCP-IP section under Interlisp Files.

*** 8877 COPYFILE from UNIX hosts via TCP to Lisp should convert EOL based on switch.**

See AR 5396.

*** 9699 TCP/IP: DOMAIN.INIT does a MKSTRING where it shouldn't, with the result that the address of the primary name server gets set to 0.**

Prior: A bug in the **DOMAIN.INIT** caused the system to perform a MKSTRING where it should not have.

Current: **DODIP.HOSTP** now works with strings in the host-name. Therefore, "**PARCVAX.XEROX.COM**" now works as well as '**PARCVAX.XEROX.COM**'.

9735 IL:ARGNAMES property of CL:ASSOC is incorrect.

Prior: When you requested the argument list for **CL:ASSOC**, the system returned **CL:ASSOC ITEM A-LIST &KEY:TEST:TEST-NOT**.

Current: The system now returns **CL:ASSOC ITEM A-LIST &KEY :TEST :TEST-NOT :KEY**.

* **10060 TCP cannot handle periods in directory names.**

Prior: When you tried to browse {python}-
<usr/local/src/X.V11R2>, or any of its subdirectories, in Medley
with TCP loaded, the result was random file extensions.

Current: TCPFTP can now handle periods in remote directory
names, as in /usr/local/src/X.V11R4/.

* **10080 Adding DONT or WONT to TELNET.OPTIONS causes problems.**

Prior: When adding entries to **TELNET.OPTIONS**, the standard
calls for hosts did not handle the option to return a **DONT** or
WONT.

Current: Adding options to **TELNET.OPTIONS** now works
without causing errors.

* **10086 TCP/IP: Want DOMAIN.LOOKUP to provide more information when tracing.**

Prior: **DOMAIN.LOOKUP** did not provide enough information
when tracing.

Current: **DOMAIN.LOOKUP** now provides more information if it is
in tracing mode.

* **10108 (UDP.SEND IPSOCKET UDP) causes a 9305 MP when passed a NIL as its second argument.**

Prior: **UDP.SET.CHECKSUM** attempted to **REPLACE** the
UDPCHECKSUM field of the **UDP** (which is **NIL**).

Current: **UDP.SEND** no longer causes a 9305 crash when its
second argument is **NIL**.

* **10164 CLOSEEF on a TCP stream can hang.**

Prior: If you opened a large file while running TCP and then
closed the file before reading it completely, the read would
continue to completion unseen before **CLOSEEF** returned.

Current: Whenever possible, the system returns to you
immediately; the file is closed. On hosts which do not support
an FTP abort, the system must read to the end of file before
closing.

- * **10308 TCP EOL conversions when copying/seeing TEdit and source files.**

See AR 5396.

- * **10313 Would like TCP to enumerate sub-directories with wildcard.**

Prior: You could not use wildcards in the directory field of the field name.

Current: Wildcards can now be used.

- * **10489 TCP:GETHOSTINFO doesn't deal with IP hosts well.**

Prior: **GETHOSTINFO** would return the wrong information when the host name had to be looked up using **TCPDOMAIN**.

Current: The correct information is now returned.

- * **10799 DOMAIN.GRAPH should open a window when one isn't supplied.**

Prior: If you called (**DOMAIN.GRAPH**) with no arguments, it gave you the following error: **INVALID ARGUMENT: NIL**.

Current: It now opens a window sized for the graph.

- 10827 PROCEED has argnames, no definition.**

Prior: (**PROCEED ?=** printed an argument list for **PROCEED** since it has an **ARGNAMES** property. However, **PROCEED** has no definition.

Current: The system now returns the following message: **CANNOT FIND ARGS FOR PROCEED**.

- 10977 {LPT} files are not deleted after being printed.**

Prior: When you requested hardcopy, the intermediate files remained open.

Current: All intermediate files are closed and deleted.

- 11020 Same as above**

- 11025** **Maiko resets key actions each time you boot Lisp.**
- Prior: When you changed key definitions, then logged off and logged back on, the changes were not retained.
- Current: Changes are now retained.
-
- 11030** **Authentication at exiting idle is incorrect.**
- Prior: When you wanted to return from idling, UNIX would accept any password entered without authenticating it.
- Current: The password must be correct to return from idling.
-
- 11034** **Hardcopying a TEdit document with a larger-than-page-size sketch causes VMEM to fill.**
- Prior: When hardcopying a document which contained a bitmap or sketch larger than the allotted space on the page, an infinite loop occurred and storage filled.
- Current: TEdit will print only as much as fits in the allotted space and abort the remainder of the bitmap or sketch. The text then continues to print.
-
- 11036** **The CL Compiler generates terrible floating point code.**
- Prior: The CL Compiler generated inefficient floating point code.
- Current: The CL Compiler now generates efficient floating point code.
-
- 11041** **The function RNUMBER from the Lisp library-package READNUMBER returns "erroneous" results when using the floating point flag.**
- Prior: When you used **RNUMBER** to enter a decimal value, the system returned the wrong results.
- Current: The correct results are now returned.
-
- 11068** **(QUOTIENT X 0.0) gives different results on Sun 4 than on an 1186 or Sun 3.**

Prior: If you tried to divide by 0.0 on a Sun 4, the system returned a random large number.

Current: The system now either returns 0.0 or signals an error, depending on your OVERFLOW specifications.

11076 Maiko device configuration should clear fields first.

Prior: When moving a SYSOUT from one kind of Sun to another, the machine was confused as to the current machine configuration.

Current: The configuration of the machine from which the SYSOUT is being moved is cleared before setting the configuration for the machine to which it is moved.

11079 \GCDISABLE does not affect the system.

Prior: When the garbage collector filled up on the Sun, the system halted immediately, without allowing the user time to save current work.

Current: When the garbage collector fills up, a warning message is displayed and the system starts processing very slowly. The user is allowed a short time in which to save current work before the system is disabled.

11092 CL:FORMAT, ^F bug when scaling specified.

Prior: **FORMAT** using the scale option of ^F would sometimes not scale the floating-point number correctly. This happened only when the user did not specify either the width or decimal-places argument to ^F and the number was in the range of .001 to 1.0e7.

Current: The floating-point number is now scaled correctly.

11135 GETCHARBITMAP incorrectly returns the width instead of the ImageWidth of a character.

Prior: The width instead of the character ImageWidth was returned for **GETCHARBITMAP**.

Current: **GETCHARBITMAP** now returns the ImageWidth.

11136 GETCHARBITMAP incorrectly uses the Width field of a character instead of the ImageWidth.

Prior: **GETCHARBITMAP** incorrectly used the Width field of a character instead of the ImageWidth. It caused overlap between characters in the character bitmap array.

Current: **GETCHARBITMAP** now uses the ImageWidth, thereby placing the character correctly in the bitmap.

11137 \SlowBlitChar cannot handle rotated fonts (270 degrees).

Prior: When you tried to view a display font that was rotated 270 degrees, the system returned an error message.

Current: You can now display the rotated font.

11138 \SlowHDCPYBlitChar does not handle hardcopying of rotated fonts (270 degrees).

Prior: When you tried to view a hardcopy font that was rotated 270 degrees, the system returned an error message.

Current: You can now display the rotated font.

11153 Can't CONN to a Sun directory without having final / on name.

Prior: If you tried to connect to a directory on {DSK} or {UNIX} while working on the Sun, you had to specify the trailing slash (/) on the directory name.

Current: You do not have to specify the trailing slash to make the connection.

11154 Can't connect to a Sun directory if lowest-level dir name has "." in it.

Prior: If you connected to a directory where the lowest level directory had a period in it, it would not work.

Current: You can now make the connection.