

MDEV-21978 Test Report

Test Case	Sub Test	Configuration	Expected Output	Real Output	Notes
%sQ	ASCII Non-Printable U+0001 - u+0031	Print as a loop that sets the buffer via {int} directly	Value matches output for backtick flag.	As expected	
	ASCII Printable Characters 32-0x7F	Print as a loop that sets the buffer via {int} directly	Characters are printed correctly	As expected	
	ASCII NUL 0000 \0	set buffer[0]=0;	Ends string (doesn't actually print anything)	As expected	
	ASCII > U+007F (end 0xFF)	Print as a loop that sets the buffer via {int} directly	Nothing breaks, and the character representation for an unknown char is output	As expected	
	Multiple %sQ can be specified together		Multiple %sQ can be specified together	As expected	
	Output matches behavior of old "" output for all above tests		Output matches behavior of old "" output for all above tests	As expected	
%sB	Test simple characters		Simple characters are printed	As expected	
	0x0 does not end the string, and %sB should print passed it if <precision> specifies so	Using a char array of valid chars, set one index to 0 (end of string)	The entire array of characters should be stored	As expected	
	Escapes don't do anything	Escape a '\0' and make sure everything is still printed	All values used in the input sB should be retained as-is	As expected	
		\0 can start a string	The whole string is still retained	As expected	
		\0 can end a string	The 0 at the end is retained	As expected	
	Multiple %sB can be specified together			As expected	
Output matches behavior of old "%b" output for all above tests		Output matches behavior of old "%b" output for all above tests	As expected		
%iE	Test valid error code ranges	Loop through i from 1 to 201, and output the %iE	Each iteration prints the correct error number, as well as message description for that error number	As expected	
	Test invalid error code ranges	Negative values and 0	Should mention that the error	As expected	The message for 0 vs. negative

			code number is not valid		values is different. For 0 it is: 0 "Internal error/check (Not system error)" And for general negative numbers it is: -5 "Internal error < 0 (Not system error)"
	Test invalid error code ranges > 201		Display message about an unknown error number	As expected	202 "Unknown error 202"
	Test multiple %iE invocations		Each invocation display its error information correctly given the number in the varargs.	As expected	
	Give the input number weird values	Memory address	Value should be treated as a number, and the memory address should translate to an invalid error number that is displayed	As expected	
		Character literal	Value should be treated as a number that is interpreted according to the valid/invalid value range behavior.	As expected	
		NUL ('\0') character	Value should be treated as 0 and result in an invalid error number message	As expected	
	Output matches behavior of old '%M' output for all above tests		Output matches behavior of old '%M' output for all above tests	As expected	
%sT	A string of size less than the truncation length should not be truncated	Truncation length = 5	abcd -> abcd	As expected	
	A string of size equal to the truncation length should not be truncated		abcde -> abcde	As expected	
	A string of size 1 over the truncation length should truncate the 3 characters at and before the index of the truncation length.		abcdef -> ab...	As expected	
	A string of size 2 over the truncation length should truncate		abcdefg -> ab...	As expected	

	the 3 characters at and before the index of the truncation length.				
	A string of size 3 over the truncation length should truncate the 3 characters at and before the index of the truncation length.		abcdefgh -> ab...	As expected	
	A string of size 5 over the truncation length should truncate the 3 characters at and before the index of the truncation length.		abcdefghijk -> ab...	As expected	
	Two truncated strings in the same call should both truncate, correctly		"abcdefghijk" and "uvwxyz" -> "ab..." and "uv..."	As expected	
	A string that is longer than the truncation length, but has a '\0' before the truncation length inside it should not truncate, but rather end before the '\0'		ab\0defghijk -> ab	As expected	
	%sT should match the old %T behavior for all above tests		%sT should match the old %T behavior for all above tests	As expected	
%sS	%sS should print a string	%sS	123abcde\0fg -> 123abcde	As expected	
	%sS should adhere to precision	%.6sS	123abcde\0fg -> 123abc	As expected	
	Multiple %sS should be ok		%.3sS %sS % "abcdef" "ghi" -> "abc ghi"	As expected	