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In [LoadRunner](#) // 7:39 AM // [5 comments](#)

C Vuser Functions in LoadRunner

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In LoadRunner, you can add C Vuser functions to any Vuser script in order to enhance the script. VuGen generates only a few of the general Vuser functions while you record. If required, the remaining functions can be manually programmed into a script.

As per my knowledge, below is a list of general API functions for ANSI C scripts. It includes all protocols except for Java, VB, and GUI:

Transaction Functions:

1. `lr_end_sub_transaction` --> Marks the end of a sub-transaction for performance analysis.
2. `lr_end_transaction` --> Marks the end of a transaction.
3. `lr_end_transaction_instance` --> Marks the end of a transaction instance for

performance analysis.

4. `lr_fail_trans_with_error` --> Sets the status of open transactions to LR_FAIL and sends an error message.

5. `lr_get_trans_instance_duration` --> Gets the duration of a transaction instance specified by its handle.

6. `lr_get_trans_instance_wasted_time` --> Gets the wasted time of a transaction instance by its handle.

7. `lr_get_transaction_duration` --> Gets the duration of a transaction by its name.

8. `lr_get_transaction_think_time` --> Gets the think time of a transaction by its name.

9. `lr_get_transaction_wasted_time` --> Gets the wasted time of a transaction by its name.

10. `lr_resume_transaction` --> Resumes collecting transaction data for performance

analysis.

11. `lr_resume_transaction_instance` --> Resumes collecting transaction instance data for performance analysis.
12. `lr_set_transaction_instance_status` --> Sets the status of a transaction instance.
13. `lr_set_transaction_status` --> Sets the status of open transactions.
14. `lr_set_transaction_status_by_name` --> Sets the status of a transaction.
15. `lr_start_sub_transaction` --> Marks the beginning of a subtransaction.
16. `lr_start_transaction` --> Marks the beginning of a transaction.
17. `lr_start_transaction_instance` --> Starts a nested transaction specified by its parent's handle.
18. `lr_stop_transaction` --> Stops the collection of transaction data.

19. `lr_stop_transaction_instance` --> Stops collecting data for a transaction specified by its handle.

20. `lr_wasted_time` --> Removes wasted time from all open transactions.

Command Line Parsing Functions:

1. `lr_get_attrib_double` --> Retrieves a double type variable used on the script command line.

2. `lr_get_attrib_long` --> Retrieves a long type variable used on the script command line.

3. `lr_get_attrib_string` --> Retrieves a string used on the script command line.

Informational Functions:

1. `lr_user_data_point` --> Records a user-defined data sample.

2. `lr_whoami` --> Returns information about a Vuser to the Vuser script. Not applicable for Application Management.

3. `lr_get_host_name` --> Returns the name of the host executing the Vuser script.

4. `lr_get_master_host_name` --> Returns the name of the machine running the LoadRunner Controller or Tuning Console. Not applicable for Application Management.

String Functions:

1. `lr_eval_string` --> Replaces a parameter with its current value.

2. `lr_save_string` --> Saves a null-terminated string to a parameter.

3. `lr_save_var` --> Saves a variable length string to a parameter.

4. `lr_save_datetime` --> Saves the current date and time to a parameter.

5. `lr _advance_param -->` Advances to the next available parameter.
6. `lr _decrypt -->` Decrypts an encoded string.
7. `lr _eval_string_ext -->` Retrieves a pointer to a buffer containing parameter data.
8. `lr _eval_string_ext_free -->` Frees the pointer allocated by `lr _eval_string_ext`.
9. `lr _save_searched_string -->` Searches for an occurrence of string in a buffer and saves a portion of the buffer, relative to the string occurrence, to a parameter.

Message Functions:

1. `lr _debug_message -->` Sends a debug message to the Output window or the Business Process Monitor log files.
2. `lr _error_message -->` Sends an error message to the Output window or the Business Process Monitor log files.

3. `lr_get_debug_message` --> Retrieves the current message class.
4. `lr_log_message` --> Sends a message to a log file.
5. `lr_output_message` --> Sends a message to the Output window or the Business Process Monitor log files.
6. `lr_set_debug_message` --> Sets a debug message class.
7. `lr_vuser_status_message` --> Generates and prints formatted output to the Controller or Console Vuser status area. Not applicable for Application Management.
8. `lr_message` --> Sends a message to the Vuser log and Output window or the Business Process Monitor log files.

Run-Time Functions

1. `lr_load_dll` --> Loads an external DLL.

2. lr_peek_events --> Indicates where a Vuser script can be paused.

3. lr_think_time --> Pauses script execution to emulate think time—the time a real user pauses to think between actions.

4. lr_continue_on_error --> Specifies an error handling method.

5. lr_rendezvous --> Sets a rendezvous point in a Vuser script. Not applicable for Application Management.

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Carlos Vásquez Polanco · Santo Domingo, Dominican Republic

thanks!

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Veerendranath Velupuri · Consultant at Alliance Global Services

Very useful

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Santhu Vaddepally · Bangalore, India

I am Beginner to this Load Runner Programming.. so guys plz help me out.....

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Santhu Vaddepally · Bangalore, India

Hi guys... i want to access the application using C vuser function. Can any body help me out how to connect to the application and invoke that application. plz mail me to my mail id vaddepallismph@yahoo.com

[Reply](#) · [Like](#) · September 19, 2011 at 5:08am



Sam Tharakan Mathew · Exelon

HPLR functions used to clear cookies, headers and cache are:

- web_cache_cleanup();
- web_cleanup_auto_headers();
- web_cleanup_cookies();

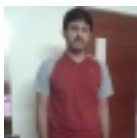
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Krishnamohan Maddineni · Hyderabad, Andhra Pradesh

hi guys if u have any updates on load runner please a mail to me
given below is my mail id

[Reply](#) · [Like](#) · August 28, 2011 at 12:48am



Krishnamohan Maddineni · Hyderabad, Andhra Pradesh

send it to my gmail id
maddineni.d@gmail.com

[Reply](#) · [Like](#) · August 28, 2011 at 12:36am



Venkatasubbarao Kakani · Marketing Manager in nrk ad systems at Hyderabad, Andhra Pradesh



give me more functions with explanation. now it is very good stuff

[Reply](#) · [Like](#) · July 18, 2011 at 11:06am



Siddardha Rsd · Works at Tata Consultancy Services

really good stuff

[Reply](#) · [Like](#) · July 12, 2011 at 4:56am



Manju Mullapudi · Malla Reddy Engineering College

hi . i am beginner in testing.how to identify the corelated values in real time scenarios.

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5 Comments :

Surendra Ramanapudi

March 12, 2011 at 6:08 PM

good job in putting together all the functions



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Murali Krishna Maladi

September 26, 2012 at 8:55 AM



thank for giving information of lr functions

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Murali Krishna Maladi

September 26, 2012 at 8:56 AM

thank u giving information of lr functions



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Murali Krishna Maladi

September 26, 2012 at 8:57 AM

thank for giving concepts



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Anonymous

June 12, 2013 at 8:50 PM



Good one

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