

Test Execution: Analyzer

DaCoPAn

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Software Engineering Project
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Course

581260 Software Engineering Project (6 cr)

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Change Log

Version	Date	Modifications
1.0	20.05.2004	First version

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1 Execution tests for the Analyzer

1.1 Command line parser

Date	Tester(s)	Number of tests	Found errors	Fixed errors
22.04.2004	Kirill Kulakov, Andrey Salo	14	No errors	No fixes

1.2 Log reader

Date	Tester(s)	Number of tests	Found errors	Fixed errors
21.04.2004	Andrey Salo	20	No errors	No fixes

1.3 Message mapper

Date	Tester(s)	Number of tests	Found errors	Fixed errors
27.04.2004	Kirill Kulakov, Viktor Surikov	4	1. Infinite looping in linking() function. 2. Segmentation fault.	None of errors fixed.
28.04.2004	Kirill Kulakov, Viktor Surikov	9	1. Infinite looping in mapping_messages()	Infinite looping errors, segmentation fault errors.
02.05.2004	Kirill Kulakov, Viktor Surikov	7	1. Module failure when logs are empty 2. Error in time shift procedure	Fixed work with empty logs, Fixed time shift procedure.

1.4 Events calculator

1.4.1 Layer splitter

Date	Tester(s)	Number of tests	Found errors	Fixed errors
30.04.2004	Mikhail Kryshen	6	Application-level message defragmentation is not working for reordered fragments.	Fixed partially.
04.05.2004	Mikhail Kryshen	5	Wrong handling of received units which has no corresponding sent event (were sent before log started).	Fixed.
05.05.2004	Mikhail Kryshen	3	Restoring application data from TCP units is not working.	Fixed partially.
06.05.2004	Mikhail Kryshen	4	Restoring application data from TCP units is not working.	Fixed.
07.05.2004	Mikhail Kryshen	7	Incorrect output for dump27_1, dump29_1 logs pair.	Fixed.
08.05.2004	Mikhail Kryshen	1	Probability of wrong data_len value for some events.	Fixed.
14.05.2004	Mikhail Kryshen	15	(Bug 0014) Application-layer message is marked as dropped when all fragments are received successfully (test pf_8_4.sh).	Fixed.
25.05.2004	Mikhail Kryshen	10	(Bug 0022) Previous fix caused wrong determination of application-level dropped events.	Undid the previous fix (bug 0014), it was correct behaviour caused by incomplete finalization of TCP connection.

1.4.2 Calculator

Date	Tester(s)	Number of tests	Found errors	Fixed errors
28.04.2004	Andrey Ananin	10	1. Segmentation faults in calculate() function	None
30.04.2004	Andrey Ananin	8	1. Wrong setting of some fields of events. 2. Wrong building links and flows lists.	Error of wrong setting was fixed.
01.05.2004	Andrey Ananin	4	1. Segmentation fault in calculate() function 2. Wrong building links and flows lists.	Segmentation fault was fixed.
02.05.2004	Andrey Ananin	4	1. Wrong setting of fields of events. 2. Wrong calculating of dropped events.	Wrong setting error was fixed.
03.05.2004	Andrey Ananin	6	1. Segmentation faults in calculate() function 2. Wrong calculating times-tamps of dropped events. 3. Doesn't add dropped events in the Events sequence.	All errors, calculate right transition times.
05.05.2004	Andrey Ananin	1	1. Segmentation faults in calc_dropped() function	Fixed wrong calculating dropped events.

1.5 PEF writer

Date	Tester(s)	Number of tests	Found errors	Fixed errors
03.05.2005	Kirill Kulakov	12	1. Module fault if all messages was sent but not received, 2. Module fault if message was received but not sent, 3. PEF did not print protocol information.	Fixed by Mikhail Kryshen.
05.05.2005	Kirill Kulakov	6	Wrong deleting id in event structure.	Correct deleting id's in main module
05.05.2005	Kirill Kulakov, Viktor Surikov	6	Wrong IP addresses	Fixed by Viktor Surikov
05.05.2005	Kirill Kulakov	6	Wrong format for timestamps	Fixed by Viktor Surikov
06.05.2005	Viktor Surikov	3	Incorrect data format	Write unprintable symbols as \0xXX, where X = [0-9a-f]
07.05.2005	Viktor Surikov	2	1. Variable names typos. 2. Incorrect scope value for header fields.	Fixed.