

Attachmate EXTRA X-Treme 9.3.1 - 3270 Performance Tests

Details about the Machine tests were executed on

Windows edition

Windows 10 Pro

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System

Processor: Intel(R) Core(TM) i7-7600U CPU @ 2.80GHz 2.90 GHz

Installed memory (RAM): 16.0 GB (15.9 GB usable)

System type: 64-bit Operating System, x64-based processor

Pen and Touch: Pen Support

UiPath Studio 2018.1.2

Terminal Emulation Activities Pack 1.1.6464.20815

Method

1. For each connection option, each important Terminal Activity was executed in a loop of 1000 iterations.
2. For each Activity, 5 runs were measured (to see consistency and get an average)
3. Tests were executed against MUSIC/SP Mainframe Emulator (see info about setting it up here: [01 - Mainframe Emulation](#))
4. To be able to make comparisons, Set Field At Position Activity is measured against a Move Cursor + Send Keys (2 activities)

(Note: for EHLL connection the terminal emulator can be either closed or started, it works in both cases, but Enhanced EHLL tests were executed with closed terminal emulator because in Enhanced EHLL we obtained better performance this way)

Test Workflows



TerminalPerform...chmateEXTRA.zip

Results (measured in seconds)

Activities	Direct Provider	EHLL Normal	EHLL Normal + Basic Mode	Enhanced EHLL	Enhanced EHLL + Basic Mode
Get Field At Position	T1: 2344.462401 T2: 2357.7328466 T3: 2296.2138062 T4: 2307.9651131 T5: 2391.9986262	T1: 19.8966853 T2: 19.2486163 T3: 19.8381875 T4: 20.9717321 T5: 21.6389729	Activity not available	T1: 44.9774043 T2: 47.0590891 T3: 45.6161664 T4: 46.7181725 T5: 46.7792917	Activity not available
Get Text At Position	T1: 2465.4399061 T2: 2511.640467 T3: 2345.2086631 T4: 2229.4349553 T5: 2342.2940072	T1: 20.2654876 T2: 21.7758843 T3: 20.7315867 T4: 19.2336769 T5: 19.5847828	T1: 8.0318653 T2: 9.3897703 T3: 9.2942576 T4: 9.43916 T5: 9.5693533	T1: 45.9536407 T2: 45.9376362 T3: 44.8484067 T4: 44.8484067 T5: 45.4560891	T1: 10.4120036 T2: 9.8998483 T3: 9.7576424 T4: 11.0441837 T5: 11.5034368
Set Field At Position	T1: 2432.3030547 T2: 2361.782621 T3: 2532.1754152 T4: 2416.7740641 T5: 2294.2362692	T1: 21.7848549 T2: 20.7754079 T3: 21.9582565 T4: 20.2044375 T5: 20.308692	Activity not available	T1: 45.5429465 T2: 46.1452695 T3: 51.7242552 T4: 49.8875536 T5: 48.5236075	Activity not available
Move Cursor + Send Keys	T1: 125.1974571 T2: 125.1030778 T3: 125.2765894 T4: 125.1803277 T5: 125.0599096	T1: 2.7372896 T2: 2.5016508 T3: 2.4255394 T4: 2.7503623 T5: 2.7809571	T1: 2.5638482 T2: 2.9452343 T3: 2.7918265 T4: 2.9561376 T5: 2.9549751	T1: 3.072691 T2: 3.0375703 T3: 3.0112668 T4: 2.9954615 T5: 2.943253	T1: 7.3549184 T2: 7.4078691 T3: 7.2765802 T4: 7.3311231 T5: 6.472793
Get Screen Area	T1: 2381.167247 T2: 2831.7205111 T3: 2329.1818893 T4: 2437.2414481 T5: 2928.6384782	T1: 19.9802778 T2: 20.752249 T3: 19.6707433 T4: 22.7232234 T5: 20.1013309	T1: 9.2100593 T2: 9.1905967 T3: 6.3484298 T4: 6.4505284 T5: 6.6694418	T1: 45.5756728 T2: 44.5471986 T3: 45.5054988 T4: 49.0998016 T5: 46.4563254	T1: 10.0585849 T2: 9.7805064 T3: 9.6617107 T4: 10.1902965 T5: 10.1953542
Get Field	T1: 2322.915498 T2: 2275.9471242 T3: 2298.6301391 T4: 2505.6915021 T5: 2293.767753	T1: 22.3058344 T2: 21.5373677 T3: 20.4739594 T4: 21.448078 T5: 20.9224094	Activity not available	T1: 47.9248439 T2: 47.1361646 T3: 46.6525628 T4: 47.0416762 T5: 48.0276455	Activity not available
Get Text	T1: 2398.9857807 T2: 2301.44621 T3: 2267.0737611 T4: 2438.9097462 T5: 2499.1534753	T1: 19.4081939 T2: 19.8143319 T3: 18.9894662 T4: 19.7379921 T5: 19.7977688	T1: 6.1531903 T2: 6.2934783 T3: 6.2611846 T4: 6.3534944 T5: 6.7165022	T1: 45.109287 T2: 45.9748975 T3: 47.0151971 T4: 46.1417419 T5: 47.8390176	T1: 9.9360211 T2: 9.9111976 T3: 9.9434808 T4: 9.8764179 T5: 10.2232514
Set Field	T1: 2503.5528356 T2: 2318.719478 T3: 2499.8067452 T4: 2270.2916711 T5: 2308.1934642	T1: 20.3782242 T2: 21.6939354 T3: 21.7232107 T4: 21.86958 T5: 22.4907785	Activity not available	T1: 45.9373058 T2: 47.3008949 T3: 47.5814897 T4: 46.3670533 T5: 50.0801054	Activity not available
Send Keys	T1: 62.6275175 T2: 62.6001805 T3: 62.5720071 T4: 62.6962072 T5: 62.5807478	T1: 2.0359145 T2: 1.4919669 T3: 1.3722019 T4: 1.3615542 T5: 1.4186275	T1: 1.4158037 T2: 1.4014359 T3: 1.4392396 T4: 1.4734466 T5: 1.3973957	T1: 1.7934006 T2: 1.6949283 T3: 2.051456 T4: 1.9712427 T5: 1.6293253	T1: 3.2438531 T2: 3.258231 T3: 3.3211433 T4: 3.1834642 T5: 3.2625019
Send Control Key	T1: 62.8865437 T2: 62.8942039 T3: 62.5259729 T4: 62.6032056 T5: 62.6271148	T1: 1.318718 T2: 1.3058858 T3: 1.3178054 T4: 1.3856009 T5: 1.3165782	T1: 1.2793034 T2: 1.2594317 T3: 1.4187744 T4: 1.2619544 T5: 1.2980119	T1: 1.6159703 T2: 1.6243214 T3: 1.3425675 T4: 1.5872211 T5: 1.6423676	T1: 2.953976 T2: 3.0958001 T3: 3.2466983 T4: 3.2228153 T5: 3.2439028