

IBM Personal Communications v 6.0 - 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)

Test Workflows



TerminalPerformanceTestsPC.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: 7.4026206 T2: 7.9103753 T3: 7.4061277 T4: 7.1716458 T5: 7.3881619	T1: 24.230486 T2: 28.437572 T3: 24.119681 T4: 24.0485071 T5: 23.8563036	Activity not available	T1: 26.150816 T2: 27.0007285 T3: 31.7734297 T4: 26.0830088 T5: 26.8107415	Activity not available
Get Text At Position	T1: 7.6080915 T2: 7.6292056 T3: 7.544306 T4: 7.5717202 T5: 7.569632	T1: 24.6348562 T2: 26.9186467 T3: 25.307609 T4: 28.6958438 T5: 25.286307	T1: 26.8109384 T2: 28.1997145 T3: 21.2590487 T4: 27.4107343 T5: 27.7987501	T1: 27.8115053 T2: 27.5227521 T3: 27.7384695 T4: 28.6647179 T5: 29.0251035	T1: 9.6894434 T2: 8.4140388 T3: 9.7719974 T4: 9.4944137 T5: 8.7021425
Set Field At Position	T1: 16.7790848 T2: 16.9433299 T3: 16.434653 T4: 17.4249902 T5: 16.8335563	T1: 26.2297966 T2: 30.2706057 T3: 26.5248471 T4: 27.8851706 T5: 24.9983321	Activity not available	T1: 28.1155146 T2: 28.3907234 T3: 29.6744357 T4: 28.4171217 T5: 28.3718496	Activity not available
Move Cursor + Send Keys	T1: 29.0837165 T2: 29.4624967 T3: 26.7933196 T4: 28.492875 T5: 33.7943784	T1: 4.9057103 T2: 4.1895472 T3: 5.2309176 T4: 4.9744642 T5: 4.6598716	T1: 9.808719 T2: 8.1023083 T3: 6.8379002 T4: 7.1581237 T5: 6.7236963	T1: 5.0022712 T2: 5.2809287 T3: 5.0995922 T4: 5.364244 T5: 5.1211571	T1: 4.8343669 T2: 5.4239307 T3: 3.9347595 T4: 4.4525115 T5: 5.5934261
Get Screen Area	T1: 7.5600052 T2: 7.5219842 T3: 7.5890855 T4: 7.5484295 T5: 7.5283204	T1: 24.0812134 T2: 24.2701177 T3: 25.0030406 T4: 24.0274724 T5: 24.435933	T1: 14.3770851 T2: 12.8812573 T3: 17.0183015 T4: 10.2447141 T5: 11.4139625	T1: 27.9215413 T2: 27.5580836 T3: 30.227267 T4: 29.5633235 T5: 29.7124061	T1: 8.565678 T2: 7.2513085 T3: 6.4395542 T4: 6.4349138 T5: 6.4774947
Get Field	T1: 7.8051664 T2: 7.8672446 T3: 8.6307067 T4: 7.7017569 T5: 7.7678782	T1: 26.9152584 T2: 24.2303115 T3: 25.5431367 T4: 24.0451854 T5: 28.085736	Activity not available	T1: 27.8696459 T2: 27.5499301 T3: 26.5362298 T4: 26.8429659 T5: 27.920615	Activity not available
Get Text	T1: 7.6380097 T2: 7.6439256 T3: 7.6011852 T4: 7.8988412 T5: 7.6087358	T1: 26.8931063 T2: 26.7003253 T3: 24.1868853 T4: 25.7809501 T5: 26.9668547	T1: 19.7136094 T2: 19.4589497 T3: 18.013148 T4: 18.5004672 T5: 18.97899	T1: 27.4082464 T2: 28.2651399 T3: 26.8937642 T4: 26.6915248 T5: 28.5093131	T1: 6.9660448 T2: 7.3177739 T3: 7.2866816 T4: 7.5986106 T5: 7.815692
Set Field	T1: 20.4930277 T2: 20.5427355 T3: 20.6937225 T4: 20.095311 T5: 20.3921901	T1: 25.3275929 T2: 26.6714268 T3: 26.2806359 T4: 25.909284 T5: 26.184124	Activity not available	T1: 31.0205304 T2: 29.4890299 T3: 31.9741846 T4: 28.4980421 T5: 31.4168926	Activity not available
Send Keys	T1: 27.2515228 T2: 28.4141443 T3: 26.2577836 T4: 25.3967641 T5: 24.986517	T1: 3.2782374 T2: 3.2914796 T3: 3.3115562 T4: 3.4782781 T5: 3.0058556	T1: 3.5805226 T2: 3.5802017 T3: 3.3387948 T4: 3.2711216 T5: 3.4067793	T1: 3.354298 T2: 3.4122873 T3: 3.264241 T4: 3.4111174 T5: 3.4052995	T1: 3.6502045 T2: 3.3239409 T3: 3.2981706 T4: 2.9668296 T5: 3.4709287
Send Control Key	T1: 15.9218078 T2: 15.8636064 T3: 15.6709812 T4: 15.961991 T5: 15.6974479	T1: 2.6032516 T2: 2.3554701 T3: 2.6018534 T4: 2.4174932 T5: 2.4686322	T1: 2.5510417 T2: 2.445466 T3: 2.4645479 T4: 2.1831617 T5: 2.1342857	T1: 2.490001 T2: 2.4043927 T3: 2.4621425 T4: 2.4519917 T5: 2.0246335	T1: 2.5398699 T2: 2.4421198 T3: 2.4628925 T4: 2.4567573 T5: 2.4728705