

Bootstrap init	Entry to Sys.init()	Entry to Sys.main()	After Sys.main() prologue	Entry to Sys.add12(123)																																																																																																																																																																																																
<table border="1"> <tr><th colspan="2">Pointers</th></tr> <tr><td>0</td><td>256 SP</td></tr> <tr><td>1</td><td>-1 LCL</td></tr> <tr><td>2</td><td>-2 ARG</td></tr> <tr><td>3</td><td>-3 THIS</td></tr> <tr><td>4</td><td>-4 THAT</td></tr> <tr><th colspan="2">Stack</th></tr> <tr><td>256</td><td>???</td></tr> <tr><td colspan="2">--SP</td></tr> </table> <p>This is how my bootstrap code initializes the pointers before calling Sys.init().</p> <p>Setting the LCL, ARG, THIS and THAT pointers to known illegal values helps identify when a pointer is used before it is initialized.</p>	Pointers		0	256 SP	1	-1 LCL	2	-2 ARG	3	-3 THIS	4	-4 THAT	Stack		256	???	--SP		<table border="1"> <tr><th colspan="2">Pointers</th></tr> <tr><td>0</td><td>261 SP</td></tr> <tr><td>1</td><td>261 LCL</td></tr> <tr><td>2</td><td>256 ARG</td></tr> <tr><td>3</td><td>-3 THIS</td></tr> <tr><td>4</td><td>-4 THAT</td></tr> <tr><th colspan="2">Stack</th></tr> <tr><td>256</td><td>* Return IP</td></tr> <tr><td>257</td><td>-1 Saved LCL</td></tr> <tr><td>258</td><td>-2 Saved ARG</td></tr> <tr><td>259</td><td>-3 Saved THIS</td></tr> <tr><td>260</td><td>-4 Saved THAT</td></tr> <tr><td>261</td><td>???</td></tr> <tr><td colspan="2">--LCL, SP</td></tr> </table> <p>This is how NestedCall.tst initializes the pointers and stack. This is what RAM looks like after my bootstrap calls Sys.init().</p> <p>(If your VM translation includes the bootstrap, the -1 through -4 values may be different if your bootstrap initializes them.)</p>	Pointers		0	261 SP	1	261 LCL	2	256 ARG	3	-3 THIS	4	-4 THAT	Stack		256	* Return IP	257	-1 Saved LCL	258	-2 Saved ARG	259	-3 Saved THIS	260	-4 Saved THAT	261	???	--LCL, SP		<table border="1"> <tr><th colspan="2">Pointers</th></tr> <tr><td>0</td><td>266 SP</td></tr> <tr><td>1</td><td>266 LCL</td></tr> <tr><td>2</td><td>261 ARG</td></tr> <tr><td>3</td><td>4000 THIS</td></tr> <tr><td>4</td><td>5000 THAT</td></tr> <tr><th colspan="2">Stack</th></tr> <tr><td>256</td><td>* Return IP</td></tr> <tr><td>257</td><td>-1 Saved LCL</td></tr> <tr><td>258</td><td>-2 Saved ARG</td></tr> <tr><td>259</td><td>-3 Saved THIS</td></tr> <tr><td>260</td><td>-4 Saved THAT</td></tr> <tr><td>261</td><td>* Return IP</td></tr> <tr><td>262</td><td>261 Saved LCL</td></tr> <tr><td>263</td><td>256 Saved ARG</td></tr> <tr><td>264</td><td>4000 Saved THIS</td></tr> <tr><td>265</td><td>5000 Saved THAT</td></tr> <tr><td>266</td><td>???</td></tr> <tr><td colspan="2">--LCL, SP</td></tr> </table>	Pointers		0	266 SP	1	266 LCL	2	261 ARG	3	4000 THIS	4	5000 THAT	Stack		256	* Return IP	257	-1 Saved LCL	258	-2 Saved ARG	259	-3 Saved THIS	260	-4 Saved THAT	261	* Return IP	262	261 Saved LCL	263	256 Saved ARG	264	4000 Saved THIS	265	5000 Saved THAT	266	???	--LCL, SP		<table border="1"> <tr><th colspan="2">Pointers</th></tr> <tr><td>0</td><td>266 SP</td></tr> <tr><td>1</td><td>266 LCL</td></tr> <tr><td>2</td><td>261 ARG</td></tr> <tr><td>3</td><td>4000 THIS</td></tr> <tr><td>4</td><td>5000 THAT</td></tr> <tr><th colspan="2">Stack</th></tr> <tr><td>256</td><td>* Return IP</td></tr> <tr><td>257</td><td>-1 Saved LCL</td></tr> <tr><td>258</td><td>-2 Saved ARG</td></tr> <tr><td>259</td><td>-3 Saved THIS</td></tr> <tr><td>260</td><td>-4 Saved THAT</td></tr> <tr><td>261</td><td>* Return IP</td></tr> <tr><td>262</td><td>261 Saved LCL</td></tr> <tr><td>263</td><td>256 Saved ARG</td></tr> <tr><td>264</td><td>4000 Saved THIS</td></tr> <tr><td>265</td><td>5000 Saved THAT</td></tr> <tr><td>266</td><td>0 local 0</td></tr> <tr><td>267</td><td>0 local 1</td></tr> <tr><td>268</td><td>0 local 2</td></tr> <tr><td>269</td><td>0 local 3</td></tr> <tr><td>270</td><td>0 local 4</td></tr> <tr><td>271</td><td>???</td></tr> <tr><td colspan="2">--SP</td></tr> </table> <p>The function prologue is the assembly language code generated for the "function" VM command.</p>	Pointers		0	266 SP	1	266 LCL	2	261 ARG	3	4000 THIS	4	5000 THAT	Stack		256	* Return IP	257	-1 Saved LCL	258	-2 Saved ARG	259	-3 Saved THIS	260	-4 Saved THAT	261	* Return IP	262	261 Saved LCL	263	256 Saved ARG	264	4000 Saved THIS	265	5000 Saved THAT	266	0 local 0	267	0 local 1	268	0 local 2	269	0 local 3	270	0 local 4	271	???	--SP		<table border="1"> <tr><th colspan="2">Pointers</th></tr> <tr><td>0</td><td>277 SP</td></tr> <tr><td>1</td><td>277 LCL</td></tr> <tr><td>2</td><td>271 ARG</td></tr> <tr><td>3</td><td>4001 THIS</td></tr> <tr><td>4</td><td>5001 THAT</td></tr> <tr><th colspan="2">Stack</th></tr> <tr><td>256</td><td>* Return IP</td></tr> <tr><td>257</td><td>-1 Saved LCL</td></tr> <tr><td>258</td><td>-2 Saved ARG</td></tr> <tr><td>259</td><td>-3 Saved THIS</td></tr> <tr><td>260</td><td>-4 Saved THAT</td></tr> <tr><td>261</td><td>* Return IP</td></tr> <tr><td>262</td><td>261 Saved LCL</td></tr> <tr><td>263</td><td>256 Saved ARG</td></tr> <tr><td>264</td><td>4000 Saved THIS</td></tr> <tr><td>265</td><td>5000 Saved THAT</td></tr> <tr><td>266</td><td>0 local 0</td></tr> <tr><td>267</td><td>200 local 1</td></tr> <tr><td>268</td><td>40 local 2</td></tr> <tr><td>269</td><td>6 local 3</td></tr> <tr><td>270</td><td>0 local 4</td></tr> <tr><td>271</td><td>123 argument 0</td></tr> <tr><td>272</td><td>* Return IP</td></tr> <tr><td>273</td><td>266 Saved LCL</td></tr> <tr><td>274</td><td>261 Saved ARG</td></tr> <tr><td>275</td><td>4001 Saved THIS</td></tr> <tr><td>276</td><td>5001 Saved THAT</td></tr> <tr><td>277</td><td>???</td></tr> <tr><td colspan="2">--LCL, SP</td></tr> </table>	Pointers		0	277 SP	1	277 LCL	2	271 ARG	3	4001 THIS	4	5001 THAT	Stack		256	* Return IP	257	-1 Saved LCL	258	-2 Saved ARG	259	-3 Saved THIS	260	-4 Saved THAT	261	* Return IP	262	261 Saved LCL	263	256 Saved ARG	264	4000 Saved THIS	265	5000 Saved THAT	266	0 local 0	267	200 local 1	268	40 local 2	269	6 local 3	270	0 local 4	271	123 argument 0	272	* Return IP	273	266 Saved LCL	274	261 Saved ARG	275	4001 Saved THIS	276	5001 Saved THAT	277	???	--LCL, SP	
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