

MarioAI Benchmark ¹. Startup options.

Option key	Description	Values range	Example
-echo	Output all command line options to console after initialization	<on off>. Default: off	Main -echo on
-ag	AgentName should extend RegisterableAgent in order for the native agent to be available from command line	AgentName or Agents implementations. Default: HumanKeyboard-Agent	Main -ag ForwardAgent
-ze	Observation Detalization for Enemies. 0 - The most detailed	<0 1 2>. Default: 0	Main -ze 0
-vis	Enable Visualization	<on off>. Default: off	Main -vis on
-vaot	Set main View to be on top of other windows	<on off>. Default: off	Main -vaot on
-tl	Time limit. Option value: [1..MAX-INT], units: marioseconds (1 MrSEC == 16 interactions with Environment). To give to the Agent the opportunity of infinite time per level use Option value = -1	<int>. Default: 200	Main -tl 42
-pw	Pause of the World. Freezes animation all the sprites and disables Mario interaction with creatures. Mario still can run and get level observation	<on off>. Default: off	Main -pw on
-pr	Enable Power restoration. Enable Power restoration by pressing speed button (A on a keyboard)	<on off>. Default: off	Main -pr on
-ewf	Exit program when simulation is over	<on off>. Default: on	Main -ewf off
-gv	Enable Game Viewer	<on off>. Default: off	Main -gv on
-gvc	Enable Continuous Updates in GameViewer	<on off>. Default: off	Main -gvc on
-rfw	Set receptive field width	Any odd number $\in (0, -ll)$. Default: 19.	Main -rfw 5
-rfh	Set receptive field height	Any odd number $\in (0, -lh)$. Default: 19.	Main -rfh 7
-srf	Set receptive field (grid) visible	<on off> Default: off	Main -srf on
-mm	Mario Mode. 0 – small, 1 - large, 2 - large, fire ability is available	<0 1 2>. Default: 2	Main -mm 1

¹v-0.1.6 compliant

Option key	Description	Values range	Example
-fps	Change FPS. 100 enables max FPS	<integers in [1..100]>. Default: 24	Main -fps 50
-lt	Level type. 0 - Overground, 1 - Underground, 2 - Castle	<0 1 2>. Default: 0	Main -lt 1
-ls	Level (Randomization) Seed	<integers in [1..maxInt]>. Default: 0	Main -ls 42
-ll	Level length	<integers in [1..4096]>. Default: 320	Main -ll 550
-lh	Level height	<integers in [1..4096]>. Default: 15	Main -lh 18
-ld	Level Difficulty	<integers in [0..maxInt]>. Default: 0	Main -ld 5
-lde	Enable/disable dead ends on the level	<on off>. Default: off	Main -lde on
-lc	Enable/disable cannons on the level	<on off>. Default: on	Main -lc off
-lhs	Enable/Disable hills on the level	<on off>. Default: on	Main -lhs off
-ltb	Enable/Disable tubes on the level	<on off>. Default: on	Main -ltb off
-lg	Enable/Disable gaps on the level	<on off>. Default: on	Main -lg off
-lhb	Enable/Disable hidden blocks on the level ²	<on off>. Default: off	Main -lhb off
-le	<p>Customize creatures on the level. Creatures, that will be on the level are defined with bit mask. From left to right:</p> <ol style="list-style-type: none"> 1. goomba 2. green koopa 3. red koopa 4. spiky 5. winged goomba 6. winged green koopa 7. winged red koopa 8. winged spiky 9. spiky flower <p>Replace x with 1 if you want creature to be on the level, otherwise 0. For more details and examples see marioai-lvlgen-options-usage.pdf</p>	<xxxxxxxx>. Default: 11111111	Main -le 0
-lb	Enable/Disable visible blocks on the level	<on off>. Default: on	Main -lb off
-lco	Enable/Disable coins on the level	<on off>. Default: on	Main -lco off
-lf	Create flat level	<on off>. Default: off	Main -lf on
-stop	Run benchmark and stop a gameplay. To continue a gameplay press a	<on off>. Default: off	Main -stop on