

Krikkit Wars Corewar Championship

Pedago team pedago@42.fr

Summary: This document describes how to participate in the Corewar Championship

	_		1		_ 1	
\mathbf{C}	\mathbf{O}	n	F. (r	ìΤ	S
	V		U	\smile $lacktreau$	T C	J

Ι	Foreword	2
II	General Instructions	4
III	Important notes	6

Chapter I

Foreword

The planet Krikkit is (at the beginning of the novel Life, the Universe and Everything) located in a dust cloud composed chiefly of the disintegrated remains of the enormous spaceborne computer Hactar. Hactar was originally created by the Silastic Armorfiends of Striterax to design the Ultimate Weapon. Hactar produced a very, very small bomb that, when activated, would connect every star to every other star, cause them to all go supernova simultaneously and, thus, destroy the universe. The bomb proved dysfunctional because Hactar had designed it with a tiny flaw, reasoning that no consequence could be worse than that of setting the bomb off. The Silastic Armorfiends disagreed and destroyed Hactar.

Due to the dust cloud, the sky above Krikkit was completely black, and thus the people of Krikkit led insular lives and never realised the existence of the Universe. With the population thus prepared, Hactar, disintegrated but still functional, built and crashed a model spaceship onto Krikkit in order to introduce its inhabitants to the concept of the Universe. Secretly guided by Hactar, the Krikkiters built their first spaceship, Krikkit One, penetrated the dust cloud, and surveyed the Universe before them. Unbeknownst to the Krikkiters, Hactar had been subliminally conditioning their minds to the point where they could not accept a Universe into their world view with the intention of putting them into a similar mindset to that of the Silastic Armorfiends. Sooner or later, they would require an Ultimate Weapon, and this would allow Hactar to finally complete his purpose, something he had felt considerably guilty about not doing before. Upon first witnessing the glory and splendor of the Universe, they casually, whimsically, decided to destroy it, remarking, "It'll have to go." Aided again by the mind of Hactar, the Krikkiters built an incredible battlefleet and waged a massive war against the entire Universe. The Galaxy, then in an era of relative peace, was unprepared, and spent the next 2,000 years fighting the Krikkiters in war that resulted in about two "grillion" casualties.

When Krikkit was eventually defeated, Judiciary Pag sentenced Krikkit and its sun to be sealed in a Slo-Time envelope within which time would pass almost infinitely slowly until the end of the Universe, thus serving the dual purpose of protecting the Universe from Krikkit, and allowing the Krikkiters to enjoy a

solitary existence in the twilight of Creation. Light would be deflected around the envelope, making it invisible and impenetrable. The Wikkit Gate, the key that would unlock the envelope, was disintegrated into time, and could therefore not be used to free the planet from the envelope ahead of time.

However, a Krikkit warship carrying deadly white robots of the kind used in the war escaped before the envelope was sealed, and, within a brief ten billion years, managed to reassemble the Wikkit Gate. The Gate was composed of the Steel Pillar of Strength and Power (Marvin the Paranoid Android's artificial leg), the Golden Bail of Prosperity (The Heart of Gold, the small golden box that makes the Infinite Improbability Drive function), the Perspex Pillar of Science and Reason (The Argabuthon Scepter of Justice; "Plastic Pillar" in the American version), the Silver Bail of Peace (The Rory Award For The Most Gratuitous Use Of The Word "Fuck" In A Serious Screenplay-The Rory Award for the Most Gratuitous Use of the Word "Belgium" in a Serious Screenplay in the American version), and the Wooden Pillar of Nature and Spirituality (The reconstituted ashes of the stump signifying the death of English cricket: see The Ashes).

Chapter II

General Instructions

- To participate, you must make a champion(only one!) at the root of the Git repository associated with the championship project. It must be an .s file. If you make more than one, only the first one found by 1s will be used.
- The virtual machine and assembler that will be used are located in the provided tarball with resources. This virtual machine will be used for all championship matches.



The reference virtual machine is not necessarily always logical, and its implementation follows some technical choices that can be questionable. However, as you have access to it now, and you can study its behavior at leisure, you have no excuse if your champion does not work well on it...

- The virtual machine offers the following two ways of viewing the game:
 - With the -n option, it produces an output via ncurses to the terminal
 - \circ Without the -n option, it produces a log of events. Its verbosity is adjustable with the -v option

• The reference programs are set up as follows:

Chapter III

Important notes

- Your champions will be made public after the end of the championship, to provide examples for future contenders. If you really do not want to publish your champion, let us know.
- As a consequence of the previous point: past years' champions are available for your amusement in the same folder as the VM and the reference assembler.
- This is an event planned, first of all, to AMUSE you. As such, there is no coding standard to respect, no grade, and most importantly, no corrections: the winners will be determined during a bloody fight live in the amphitheater. Your reward will be fame, and potentially goodies, kittens, and alcohol. And a cool T-shirt if you reach the finals.
- Victory is, first of all, a secret, as Corewar is basically an advanced game of Rock-Paper-Scissors. In order not to force you to reveal your champion before the time comes, if an intermediate fight takes place, the state of memory during the game will NOT be broadcast, in order to preserve the secrecy of the code of your champions (In other words, the VM will be launched with the option -stealth).
- Fights will be 1-on-1, the order of champions will be random, and player numbers may not be 1 or 2.
- Intermediate combat, if it takes place, will take the form of a round-robin (your champion will fight every other champion).
- Eliminations, if they take place, will also take the form of a round-robin, and the best will proceed into the final fight.
- The final fight will take the form of a direct elimination tournament with random matches. Upon the first defeat, your champion will be eliminated.
- Your champions will be compiled with the reference assembler, and they will mainly be compiled by moulinette. If your champion does not compile, he will be disqualified. If you put your champion in a subdirectory, or the file does not end with an .s, or any other oddity, the result will be the same!

- The reference virtual machine becomes quite slow when the number of processes reaches millions. However, it should not be a problem if you make a serious champion. Why? Because the only way to reach that number of processes is to pit two champions that don't attack, and instead just fork in a loop, which is very uninteresting, and no champion that simple will hold for more than one round at the championship. If you do something like that, your champion will be crushed. It would be a shame.
- If you reach the quarter-finals, you may publicly ridicule the champions of Bocal.
- The dates of the various events of this championship will be specified by email.
- You can ask your questions on the forum, on slack, etc...
- All your questions are welcome, even stupid questions. Do not hesitate, we are here to have fun, not to fight.