

ELLIOTT 900 SERIES SIMULATOR

MASIR DEMONSTRATION PROGRAMS.

MASIR and LOADER demonstrations are held in the MASIR directory.

DEMO1: This is a simple illustration of the use of MASIR to assemble a trivial program, load it into memory (module 1) and run it. MAPLOD is run to display a table of located labels and free store.

DEMO2: Uses LODSET to build a new Loader for a 64K store and load the same program as DEMO1 into a different module. Again MAPLOD is used to display a table of label addresses and free store.

DEMO3: this takes the same example as the previous two demos and shows how the Loader can be made to produce sumchecked binary versions of MASIR programs.

DEMO4: this shows more advanced use of MASIR and the Loader to provide built in libraries. A library is made by assembling modified versions of SGLPAK, DBLPAK and FLTPAK from the 903SIR directory as a single RLB tape. (The modifications consist of removing patches and inserting *PROG and *NOMEM directives).

The next stage is to show loading "library mode": from the information displayed by the Loader it can be seen only SGLPAK is called by the small test program and the other units are not loaded.

The final step is to reload the entire library and build it in to the Loader. The Loader is then reinitialized and the program re-read, linked to the built-in routines.

DEMO5: shows the use of the 8K version of the 900 Loader to run the trivial example from the previous demos.

DEMO6: this demonstrates all the facilities of MASIR additional to those in SIR. The program executes but does nothing useful beyond verifying macro expansions and conditional assembly etc. The first step runs just a macro expansion and prints the resulting output. The second step runs a normal assembly with macro expansion, then load and executes the resulting code.

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DEMO7: this is an example of using macros to provide the user with a simple domain specific language for calculations with sines and cosines.

Other files.

MASIR(ISS3).BIN - "MASIR ISS 3, SCB 13-3-73 no 900, Copy 502"
MASIR assembler, issue 3. This is the last known version distributed by Elliotts on paper tape.

MASIR(181175).BIN. This is an updated version of MASIR Issue 3. It is Issue 3 with two bug fixes, dated 18/11/1975:
"Correct literal generated for +LOCAL when module patch to absolute location - SAN/7 GRC 18/11/75" and "Ignore comments inside macro text - GRC 18/11/75". It is unclear whether or not this was issued to users as MASIR Issue 4 or not.

LOADER(ISS3).BIN - "900 LOADER, ISS 3 (SCB Copy 502"
900 Loader, issue 3.

LOADER(8K).BIN - "900 LOADER FOR 8K STORE"
8K version of 900 Loader (issue not known).

MAPLOD(ISS2)(4096).BIN - "MAPLOD 4096, ISS 2 Copy 502"
MAPLOD utility, issue 2, loads at 4096.

MAPLOD(ISS2)(256).BIN - "MAPLOD 256, ISS 2 Copy 502"
MAPLOD utility, issue 2, loads at 256.

SGLPAKM.900	MASIR adjusted version of SGLPAK.
DBLPAKM.900	MASIR adjusted version of DBLPAK.
FLTPAKM.900	MASIR adjusted version of FLTPAK.