

**FUNCTIONAL DESCRIPTION** (for more detail see 84XXX family specification)

**Bond-out version MAB8401WP**

The bond-out version is a microcontroller that contains no on-board ROM, but has all address and data lines brought out to access an external ROM or EPROM. Thus, this version has more pins than the standard microcontrollers with on-board ROM. It has all the features of the other members of the MAB84X1 family, including emulation facilities for the MAB/F8422/42 (20-pin version). It can address 8K bytes of external ROM. The RAM has 128 bytes.

**Piggy-back version MAB8401B**

The Piggy-back version is a special package that has standard pinning to the bottom which facilitates insertion as a mask-programmed device. An EPROM is mounted on top in an additional socket. Thus, the total package height is greater than the standard DIL package. Emulation of the 8422/42 is not possible.

**Program and data memory**

The program memory (ROM) is mask-programmed at our factory. Because the MAB84X1 family offers a range of ROM capacities to suit the application, ROM expansion is not required. Figure 5 shows the program memory map. Program memory is arranged in banks of 2K bytes, that are selected by SEL MB instructions.

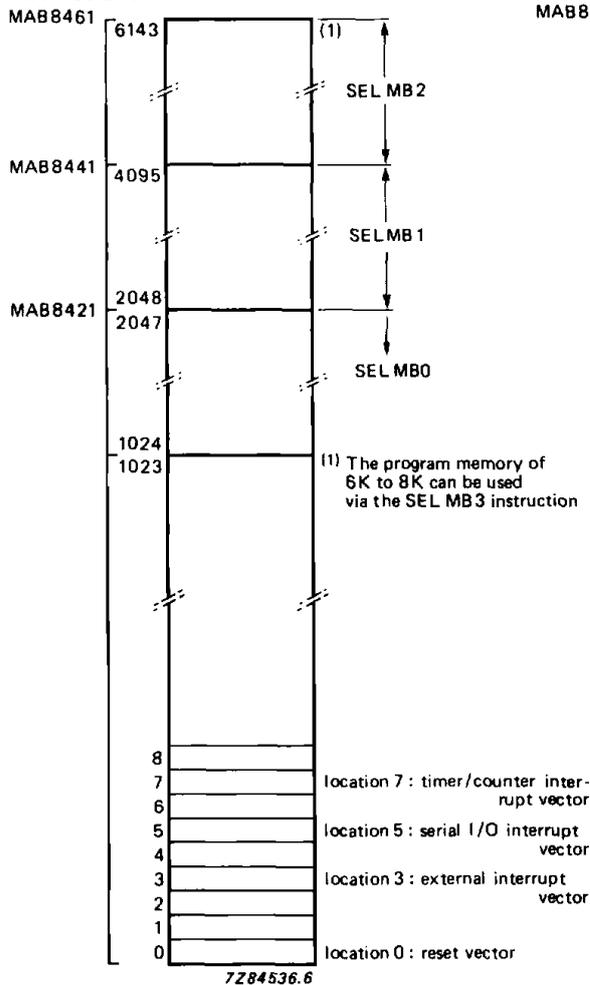


Fig. 5 The program memory map.

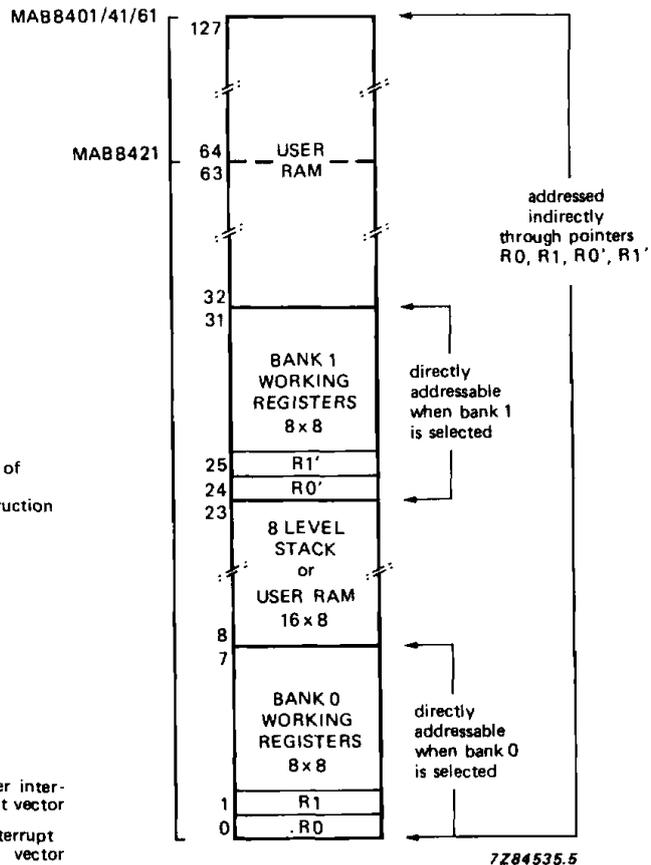


Fig. 6 The data memory map.