

# MAINFRAME ASSEMBLER PROGRAMMING

## A COMPREHENSIVE GUIDE

```
TITLE 'SAMPLE PROGRAM - BASIC STRUCTURE'
PRINT NOOCH
-----
*
*   MAIN CONTROL SECTION (OBJECT)
*
-----
MAIN      OBJECT
         USING  *,R12
         STM   R14,R12,12(R13)           Save registers
         LA   R12,R15                    Establish base
         LA   R13,SAVEAREA              Initialize save area
         ...
         ; Main logic here
         ...
         LM   R14,R12,12(R13)           Restore registers
         BR   R14                        Return to caller
-----
*
*   DATA AREAS
*
-----
SAVEAREA DS 18F                          Save area (must be 18 fullwords)
         DS 0D                            Align to doubleword
HBB      DC C'Hello, Mainframe!'
         DC X'00'                          Null terminator
-----
*
*   LITERALS
*
-----
LTOPO    Generate literal pool
-----
*
*END     MAIN
```

RICARDO NUQUI

# Assembler Programming Guide

**Katrin Zwirgmaier**



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