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1 The Hardware Support For Function Calls 14 is
the interface preferably utilized by the exchange function
TCU_EXCHANGE_FEATURES 16 for exchanging feature
information between the MCP 11 and the TCU microcode 13.

5 Referring to Figures 2(a)-2(c), with continued
reference to Figure 1, Figure 2(a) sets forth the MCP
procedure declaration for TCU_EXCHANGE_FEATURES function
while Figure 2(b) defines the parameters thereof.
TCU_EXCHANGE_FEATURES is an MCP procedure which uses
10 the Hardware Support For Function Calls 14 interface
and provides an interface between the MCP and TCU
microcode for exchanging a bit mapped list of supported
features.

 The parameter WORDNUM is defined as the word
15 number of MCP-understood or MCP-supported features
indicated in MCPTCUFEATURES. The MCP 11 passes the Word#
in this parameter, each Word# passing 47 feature bits.

 With respect to MCPTCUFEATURES, each of bits
1...47 in this word corresponds to a particular feature
20 supported by the MCP 11 or TCU microcode 13. The MCP
11 sets a feature bit to 1 if and only if the feature
is supported by the MCP 11 or the feature is a TCU
microcode feature that the MCP understands.

 The parameter LASTCALL is set to TRUE if and
25 only if this is the last call of TCU_EXCHANGE_FEATURES
that the MCP will make.

 TCU_EXCHANGE_FEATURES utilizes the Hardware
Support For Function Calls 14 interface. The parameters
passed over this interface are set up as illustrated
30 in Figure 2(c). TCU_EXCHANGE_FEATURES returns the BOOLEAN
value of the Result Word returned by the TCU microcode
13 via the interface.

 The first MCP/TCU feature is assigned to the
first feature word, bit1. As new features are added,
35 bits are assigned at the next highest available bit of
the last MCPTCUFEATURES word. A single call to this
interface allows the exchange of 47 unique features.