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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.