Pretvaranje iz heksadekadnog u dekadni brojni sistem lako se izvodi prema definiciji:

$$(372)_{16} = 3 \cdot 16^{2} + 7 \cdot 16^{1} + 2 \cdot 16^{0} = 3 \cdot 256 + 7 \cdot 16 + 2 \cdot 1 = 768 + 112 + 2 = (882)_{10}$$

$$(F2)_{16} = 15 \cdot 16^{1} + 2 \cdot 16^{0} = 15 \cdot 16 + 2 \cdot 1 = 240 + 2 = (242)_{10}$$

$$(ABC)_{16} = 10 \cdot 16^{2} + 11 \cdot 16^{1} + 12 \cdot 16^{0} = 10 \cdot 256 + 11 \cdot 16 + 12 \cdot 1 = 2560 + 176 + 12 = (2748)_{10}$$

$$(7D4)_{16} = 7 \cdot 16^{2} + 13 \cdot 16^{1} + 4 \cdot 16^{0} = 7 \cdot 256 + 13 \cdot 16 + 4 \cdot 1 = 1792 + 208 + 4 = (2004)_{10}$$

$$(8FC)_{16} = 8 \cdot 16^{2} + 15 \cdot 16^{1} + 12 \cdot 16^{0} = 8 \cdot 256 + 15 \cdot 16 + 12 \cdot 1 = 2048 + 240 + 12 = (2300)_{10}$$

$$(FFA)_{16} = 15 \cdot 16^{2} + 15 \cdot 16^{1} + 10 \cdot 16^{0} = 15 \cdot 256 + 15 \cdot 16 + 10 \cdot 1 = 3840 + 240 + 10 = (4090)_{10}$$

$$(1000)_{16} = 1 \cdot 16^{3} + 0 \cdot 16^{2} + 0 \cdot 16^{1} + 0 \cdot 16^{0} = 1 \cdot 4096 + 0 \cdot 256 + 0 \cdot 16 + 0 \cdot 1 = = 4096 + 0 + 0 + 0 = (4096)_{10}$$

$$(4077)_{16} = 4 \cdot 16^{3} + 0 \cdot 16^{2} + 7 \cdot 16^{1} + 7 \cdot 16^{0} = 4 \cdot 4096 + 0 \cdot 256 + 7 \cdot 16 + 7 \cdot 1 = = 16384 + 112 + 0 + 7 = (16503)_{10}$$

$$(AFE0)_{16} = 10 \cdot 16^{3} + 15 \cdot 16^{2} + 14 \cdot 16^{1} + 0 \cdot 16^{0} = 10 \cdot 4096 + 15 \cdot 256 + 14 \cdot 16 + 0 \cdot 1 = = 40960 + 3840 + 224 + 0 = (45024)_{10}$$

$$(FFFF)_{16} = 15 \cdot 16^{3} + 15 \cdot 16^{2} + 15 \cdot 16^{1} + 15 \cdot 16^{0} = 15 \cdot 4096 + 15 \cdot 256 + 15 \cdot 16 + 15 \cdot 1 = = 61440 + 3840 + 240 + 15 = (65535)_{10}$$

Za pretvaranje heksadekadnog u binarni brojni sistem treba svaku heksadekadnu cifru smijeniti sa grupom od 4 binarne cifre prema pravilima  $0 \rightarrow 0000$ ,  $1 \rightarrow 0001$ ,  $2 \rightarrow 0010$ ,  $3 \rightarrow 0011$ ,  $4 \rightarrow 0100$ ,  $5 \rightarrow 0101$ ,  $6 \rightarrow 0110$ ,  $7 \rightarrow 0111$ ,  $8 \rightarrow 1000$ ,  $9 \rightarrow 1001$ ,  $A \rightarrow 1010$ ,  $B \rightarrow 1011$ ,  $C \rightarrow 1100$ ,  $D \rightarrow 1101$ ,  $E \rightarrow 1110$  i  $F \rightarrow 1111$ , pri čemu se u prvoj grupi eventualne vodeće nule odbacuju: