

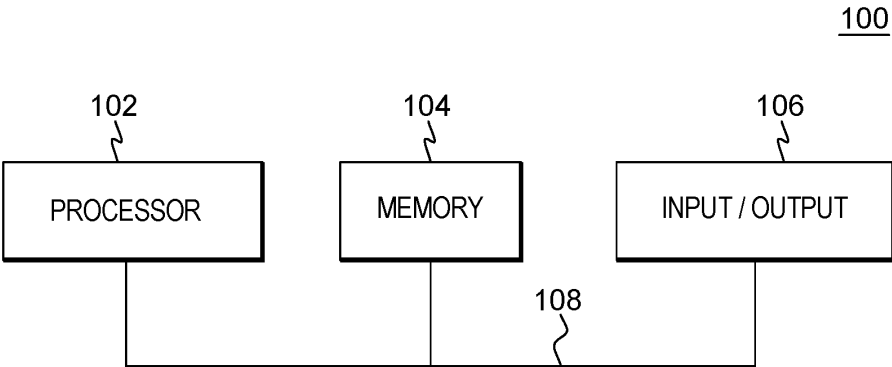


FIG. 1A

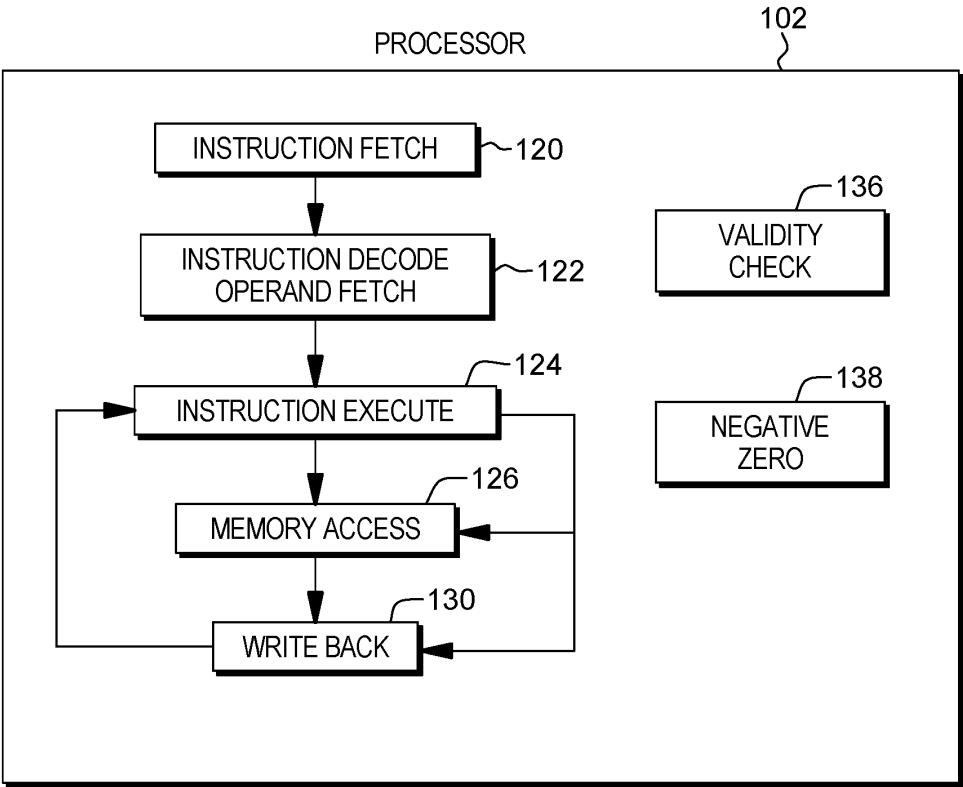


FIG. 1B

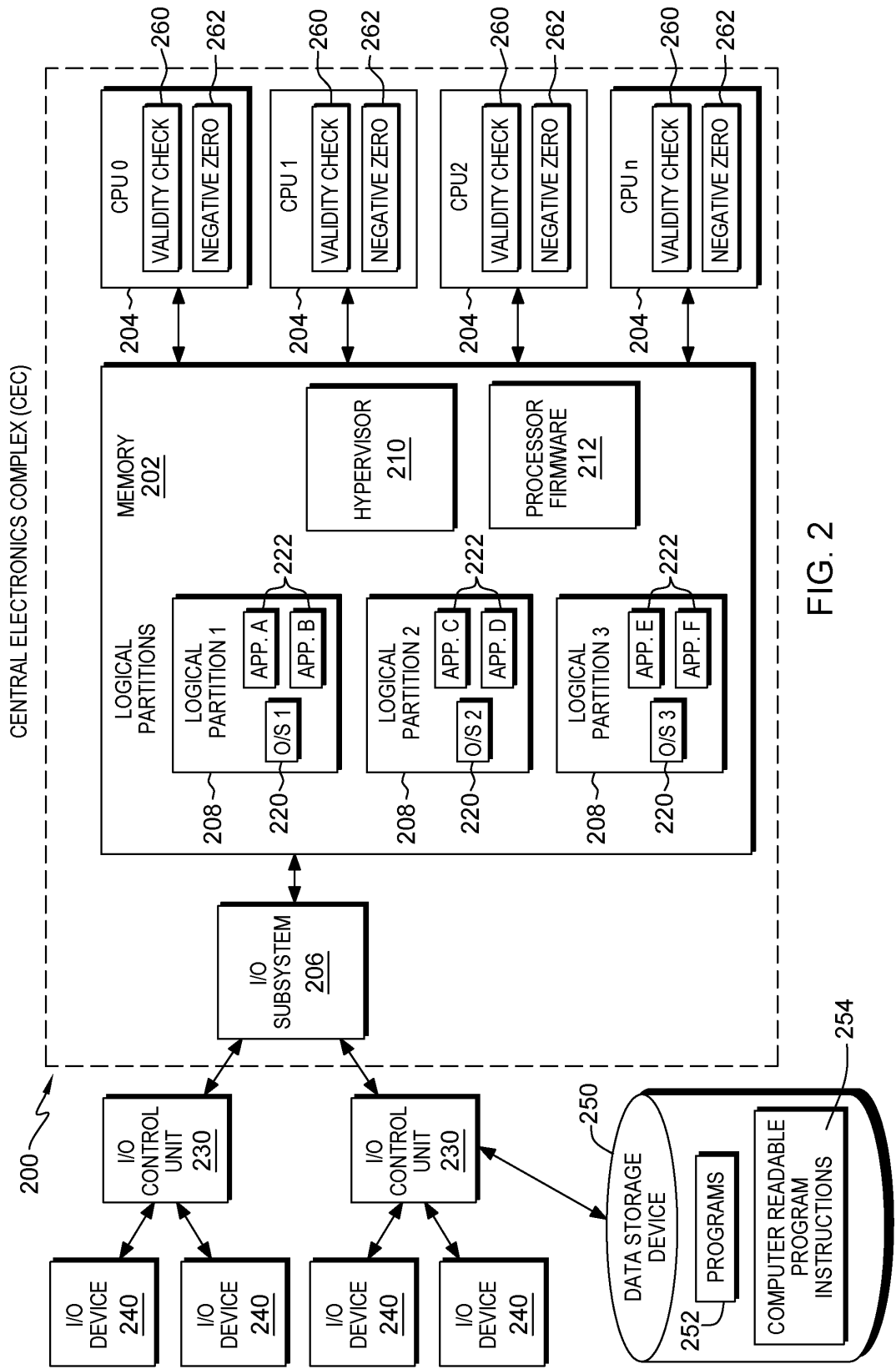


FIG. 2

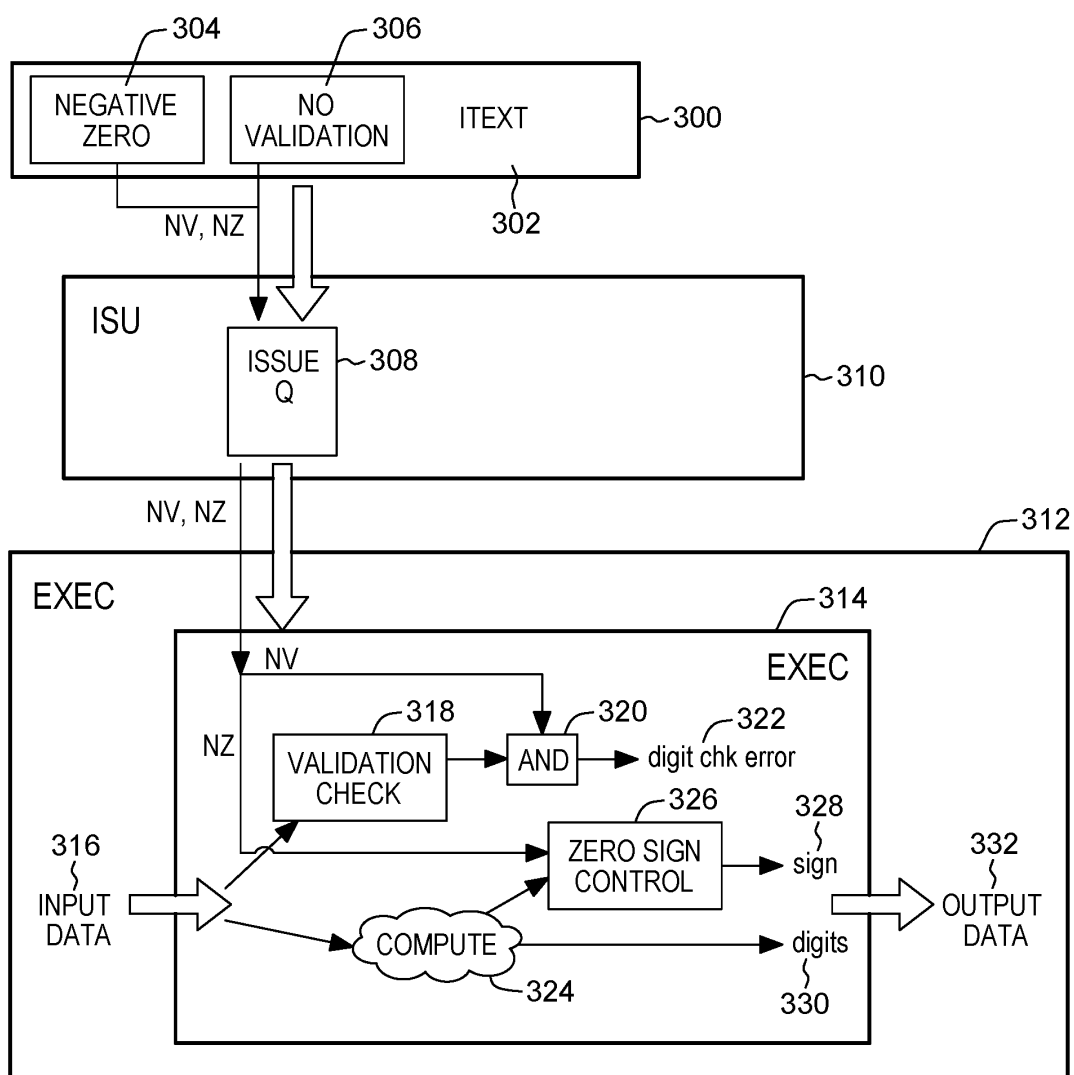


FIG. 3

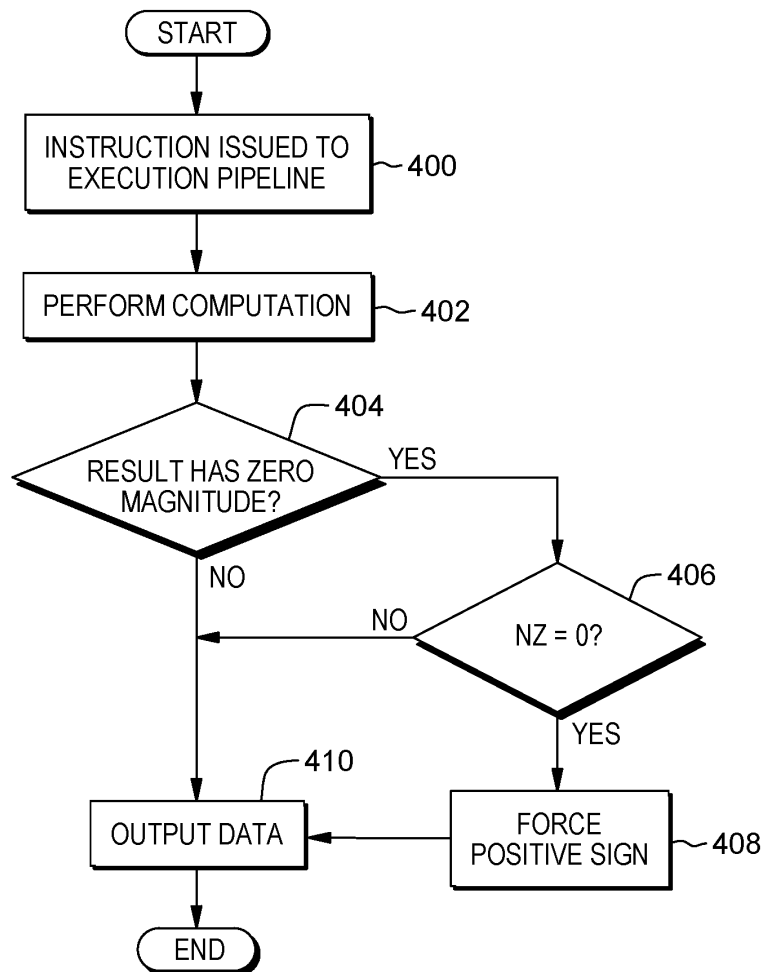


FIG. 4A

5/12

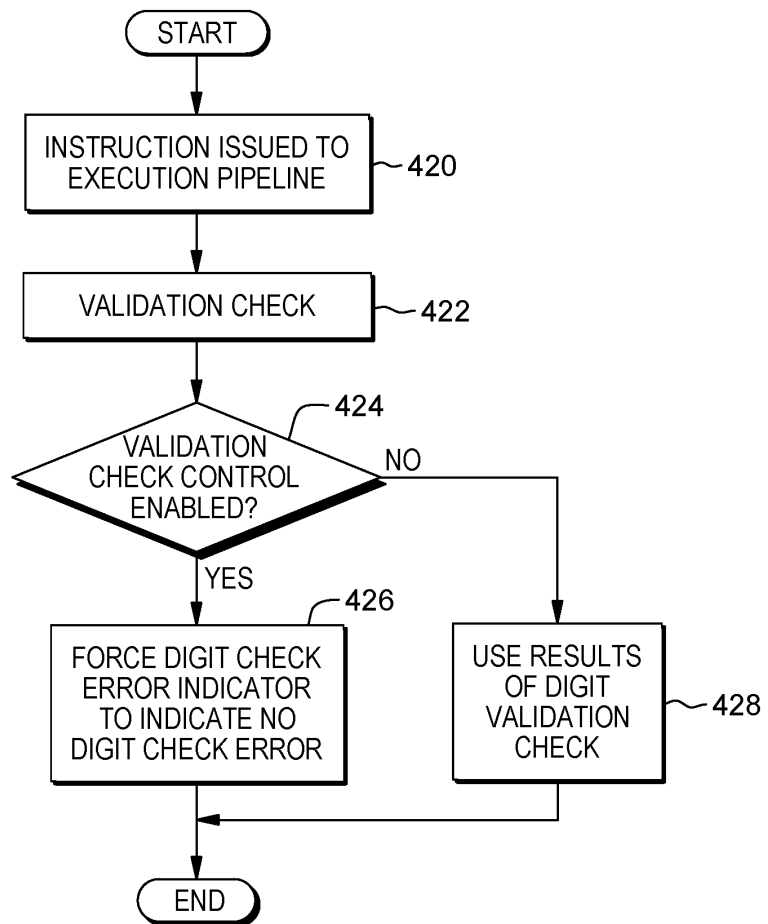


FIG. 4B

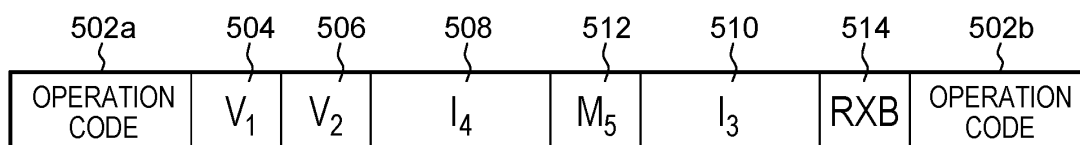


FIG. 5A

520	522	524	526	528	530	532	534	536
Sign Operation (SO)	Result Magnitude (after RDC applied)	V ₂ Sign	Positive sign Code (PC)	Negative Zero (NZ)	V2 Sign Code Validity Check	V2 Digit Code Validity Check perform if...	Result Sign Code (hex)	Condition Code ^d
00 (maintain)	<u>nonzero</u> ^a	<u>positive</u>	<u>0</u>	=	NV=0	NV=0	C positive	2
00 (maintain)	<u>nonzero</u> ^a	<u>positive</u>	<u>1</u>	=	NV=0	NV=0	F positive	2
00 (maintain)	<u>nonzero</u> ^a	<u>negative</u>	=	=	NV=0	NV=0	D negative	1
00 (maintain)	<u>nonzero</u> ^a	<u>invalid</u> ^b	=	=	NV=0	NV=0	2 nd operand sign	2
00 (maintain)	<u>zero</u> ^a	<u>positive</u>	<u>0</u>	=	NV=0	NV=0	C positive	0
00 (maintain)	<u>zero</u> ^a	<u>positive</u>	<u>1</u>	=	NV=0	NV=0	F positive	0
00 (maintain)	<u>zero</u> ^a	<u>negative</u>	<u>0</u>	<u>0</u>	NV=0	NV=0	C positive	0
00 (maintain)	<u>zero</u> ^a	<u>negative</u>	<u>1</u>	<u>0</u>	NV=0	NV=0	F positive	0
00 (maintain)	<u>zero</u> ^a	<u>negative</u>	=	<u>1</u>	NV=0	NV=0	D negative	0
00 (maintain)	<u>zero</u> ^a	<u>invalid</u> ^b	=	=	NV=0	NV=0	2 nd operand sign	0
01 (complement)	<u>nonzero</u> ^a	<u>positive</u>	-	-	always	NV=0	D negative	1
01 (complement)	<u>nonzero</u> ^a	<u>negative</u>	0	-	always	NV=0	C positive	2
01 (complement)	<u>nonzero</u> ^a	<u>negative</u>	1	-	always	NV=0	F positive	2
01 (complement)	=	<u>invalid</u> ^b	=	=	always	NV=0	- ^c	- ^c
01 (complement)	<u>zero</u> ^a	<u>positive</u>	<u>0</u>	<u>0</u>	always	NV=0	C positive	0
01 (complement)	<u>zero</u> ^a	<u>positive</u>	<u>1</u>	<u>0</u>	always	NV=0	F positive	0
01 (complement)	<u>zero</u> ^a	<u>positive</u>	=	<u>1</u>	always	NV=0	D negative	0
01 (complement)	<u>zero</u> ^a	<u>negative</u>	<u>0</u>	=	always	NV=0	C positive	0
01 (complement)	<u>zero</u> ^a	<u>negative</u>	<u>1</u>	=	always	NV=0	F positive	0
10 (force positive)	<u>nonzero</u> ^a	-	0	-	SV=1	NV=0	C positive	2
10 (force positive)	<u>nonzero</u> ^a	-	1	-	SV=1	NV=0	F positive	2
10 (force positive)	<u>zero</u> ^a	-	0	-	SV=1	NV=0	C positive	0
10 (force positive)	<u>zero</u> ^a	-	1	-	SV=1	NV=0	F positive	0
11 (force negative)	<u>nonzero</u> ^a	-	-	-	SV=1	NV=0	D negative	1
11 (force negative)	<u>zero</u> ^a	-	0	0	SV=1	NV=0	C positive	0
11 (force negative)	<u>zero</u> ^a	-	1	0	SV=1	NV=0	F positive	0
11 (force negative)	<u>zero</u> ^a	-	-	1	SV=1	NV=0	D negative	0

FIG. 5B

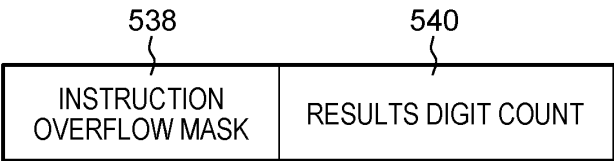


FIG. 5C

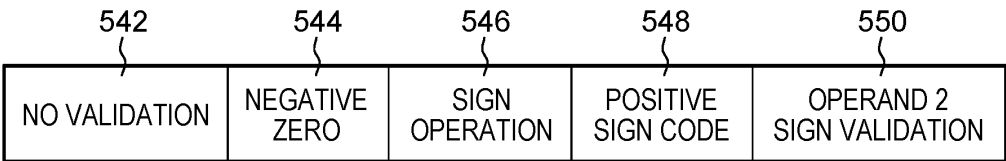


FIG. 5D

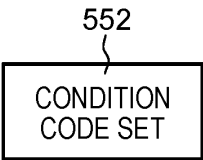


FIG. 5E

8/12

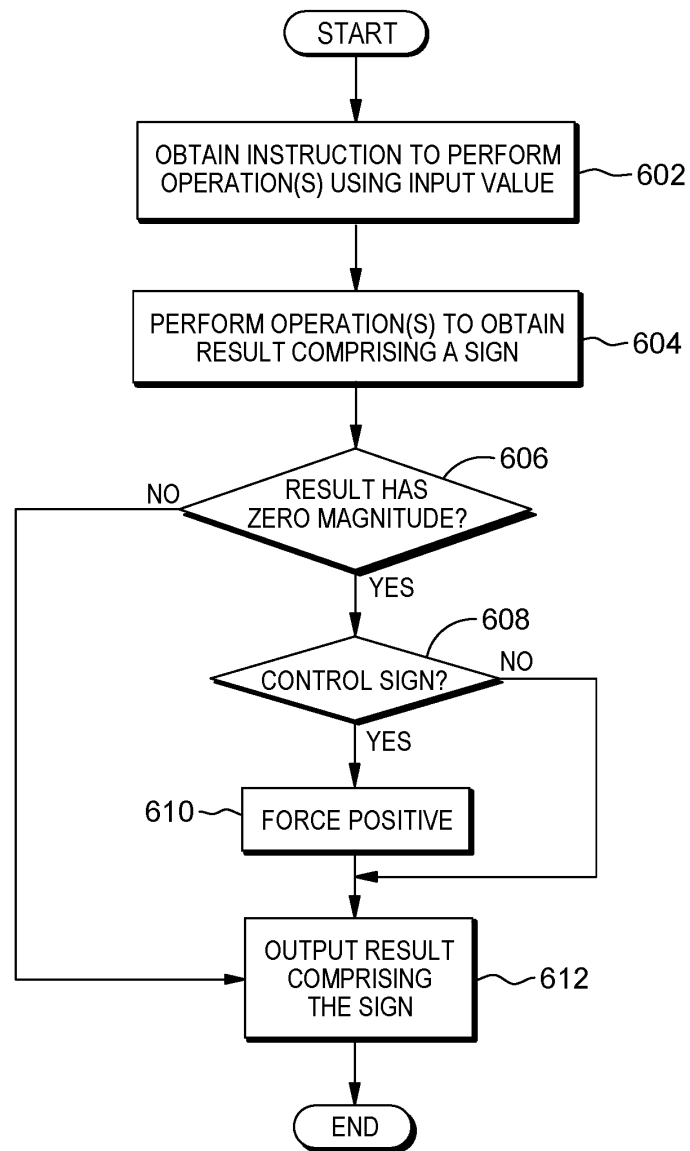


FIG. 6A

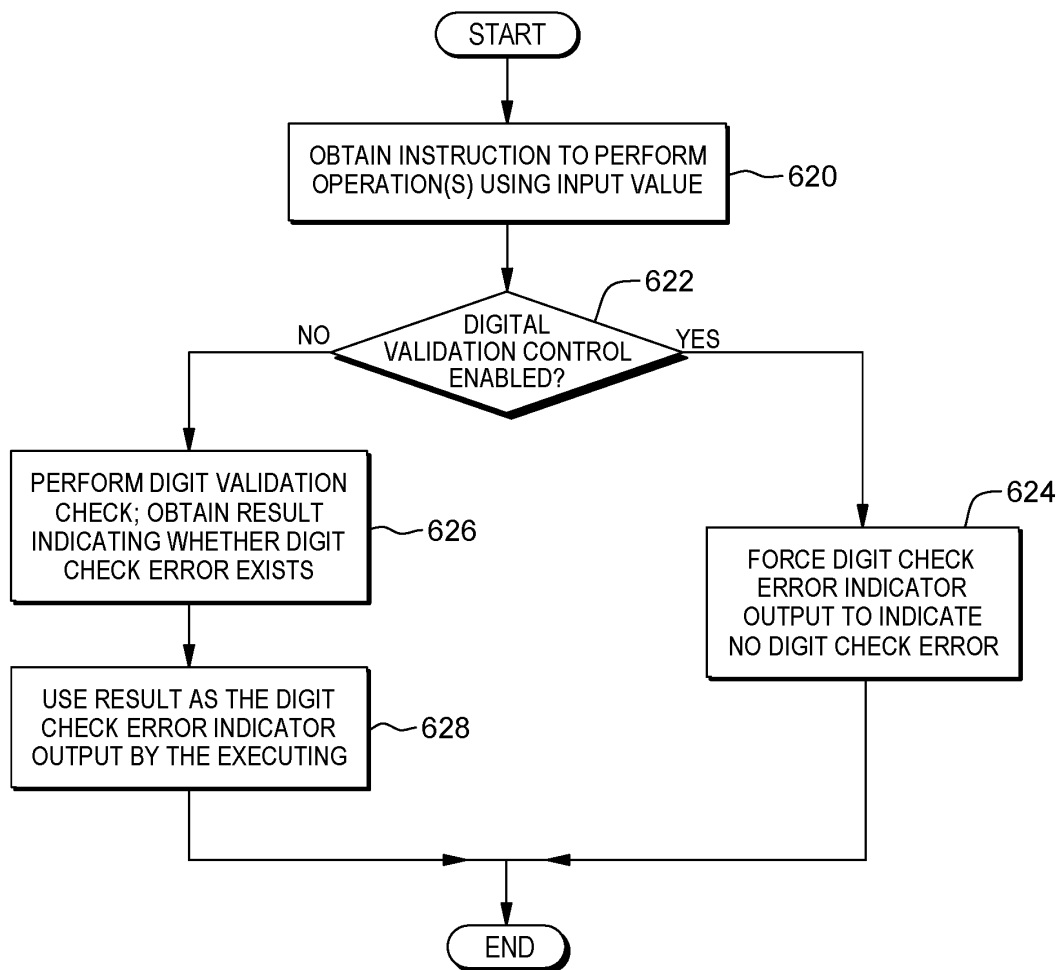


FIG. 6B

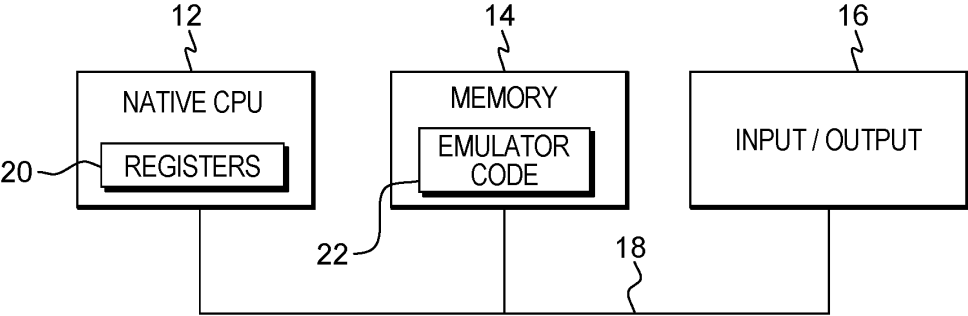


FIG. 7A

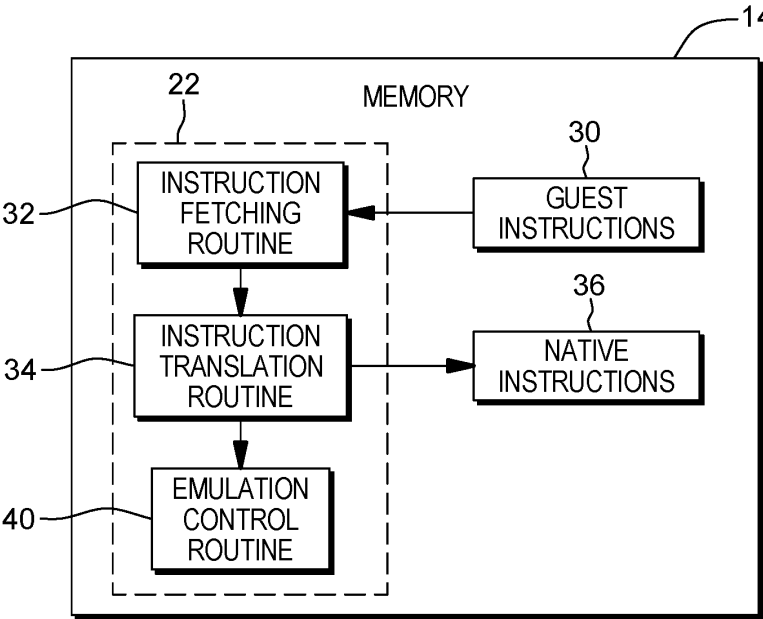


FIG. 7B

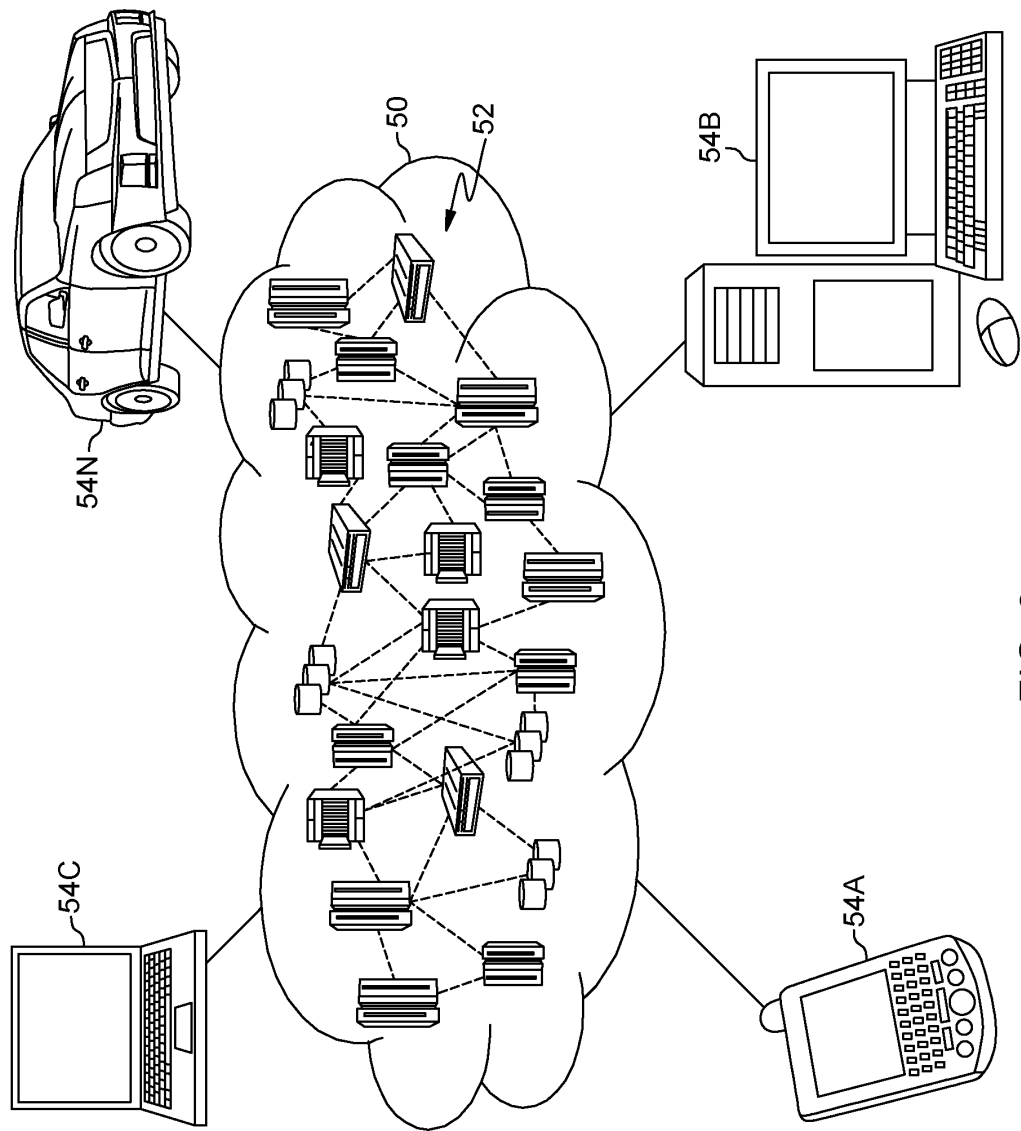


FIG. 8

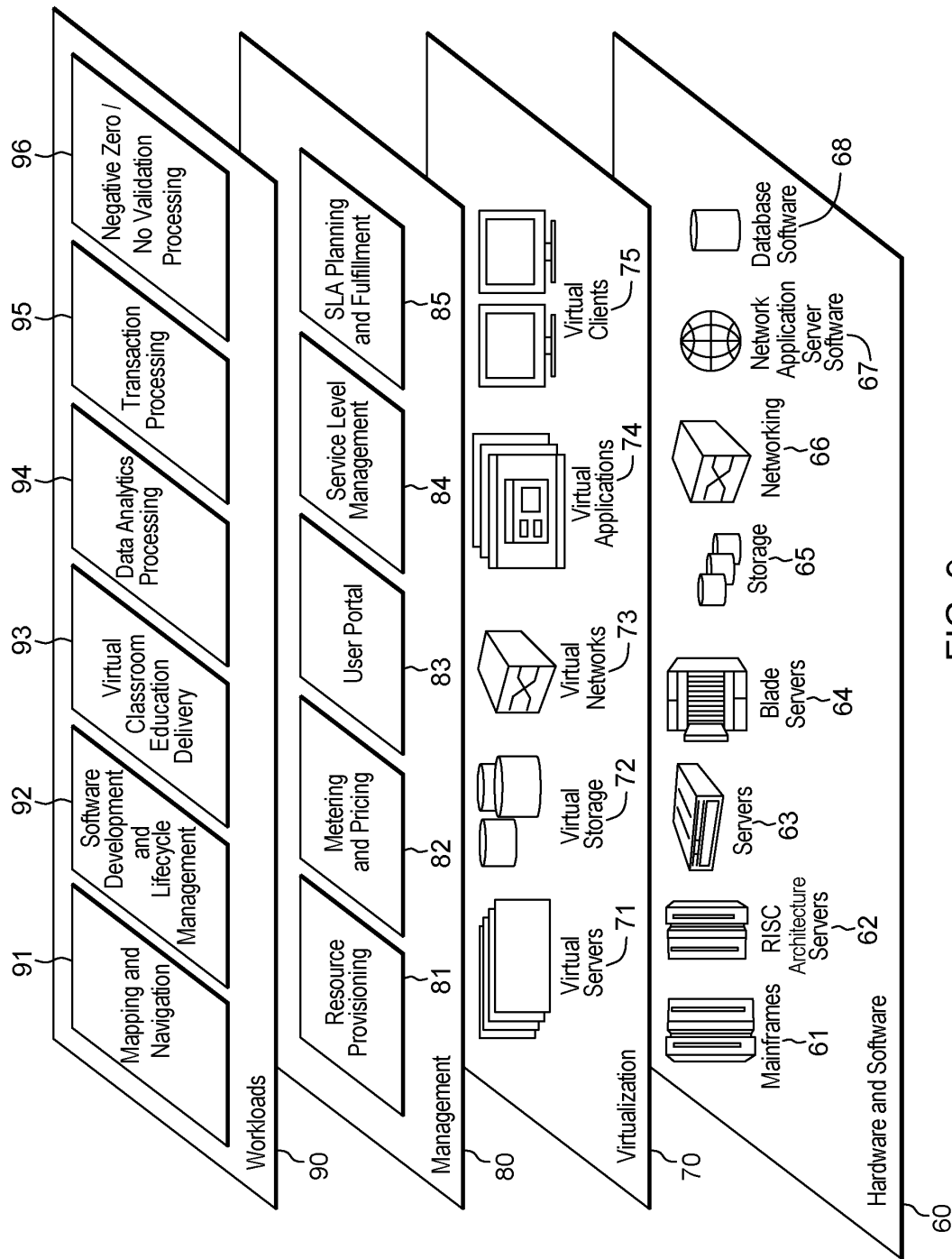


FIG. 9