

## Example# 2.8:

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD

Register	Value	Register	Value	Register	Value	Register	Value	Stack	Flags
AX	012C	SI	0000	CS	19F5	IP	0117	+0	0000
BX	0014	DI	0000	DS	19F5			+2	20CD
CX	0032	BP	0000	ES	19F5	HS	19F5	+4	9FFF
DX	0000	SP	FFFE	SS	19F5	FS	19F5	+6	EA00

Flags: 7244 (OF:0, DF:0, IF:1, SF:0, ZF:1, AF:0, PF:1, CF:0)

CMD >

Address	Instruction	Comment
0114	A33001	MOV [01301],AX
0117	B8004C	MOV AX,4C00
011A	CD21	INT 21
011C	0A00	OR AL,[BX+SI]
011E	1400	ADC AL,00
0120	1E	PUSH DS
0121	002B	ADD [BX+SI],CH
0123	0032	ADD [BP+SI],DH
0125	000A	ADD [BP+SI],CL

Address	0	1	2	3	4	5	6	7
DS:0100	B8	00	00	B9	0A	00	BB	00
DS:0108	1C	01	81	C3	02	00	81	FB
DS:0110	14	00	75	F2	A3	30	01	BB
DS:0118	00	4C	CD	21	0A	00	14	00
DS:0120	1E	00	28	00	32	00	0A	00
DS:0128	14	00	1E	00	28	00	32	00
DS:0130	2C	01	57	02	85	D2	75	04
DS:0138	85	C0	74	1C	C7	46	DC	00
DS:0140	00	8E	5E	FC	83	7D	0E	00
DS:0148	74	09	8B	46	F2	48	3B	46

Address	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
DS:0000	CD	20	FF	9F	00	EA	F0	FE	AD	DE	1B	05	C5	06	00	00
DS:0010	18	01	10	01	18	01	92	01	01	01	01	00	02	FF	FF	FF
DS:0020	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	EB	19	C0	11
DS:0030	A2	01	14	00	18	00	F5	19	FF	FF	FF	FF	00	00	00	00
DS:0040	05	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

## Example# 2.9:

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD

Register	Value	Register	Value	Register	Value	Register	Value	Stack	Flags
AX	012C	SI	0000	CS	19F5	IP	011A	+0	0000
BX	0014	DI	0000	DS	19F5			+2	20CD
CX	0000	BP	0000	ES	19F5	HS	19F5	+4	9FFF
DX	0000	SP	FFFE	SS	19F5	FS	19F5	+6	EA00

Flags: 7244 (OF:0, DF:0, IF:1, SF:0, ZF:1, AF:0, PF:1, CF:0)

CMD >

Address	Instruction	Comment
0117	A33301	MOV [01331],AX
011A	B8004C	MOV AX,4C00
011D	CD21	INT 21
011F	0A00	OR AL,[BX+SI]
0121	1400	ADC AL,00
0123	1E	PUSH DS
0124	002B	ADD [BX+SI],CH
0126	0032	ADD [BP+SI],DH
0128	000A	ADD [BP+SI],CL

Address	0	1	2	3	4	5	6	7
DS:0100	B8	00	00	B9	0A	00	BB	00
DS:0108	00	03	87	1F	01	81	C3	02
DS:0110	00	81	E9	01	00	75	F2	A3
DS:0118	33	01	B8	00	4C	CD	21	0A
DS:0120	00	14	00	1E	00	28	00	32
DS:0128	00	0A	00	14	00	1E	00	28
DS:0130	00	32	00	2C	01	D2	75	04
DS:0138	85	C0	74	1C	C7	46	DC	00
DS:0140	00	8E	5E	FC	83	7D	0E	00
DS:0148	74	09	8B	46	F2	48	3B	46

Address	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
DS:0000	CD	20	FF	9F	00	EA	F0	FE	AD	DE	1B	05	C5	06	00	00
DS:0010	18	01	10	01	18	01	92	01	01	01	01	00	02	FF	FF	FF
DS:0020	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	EB	19	C0	11
DS:0030	A2	01	14	00	18	00	F5	19	FF	FF	FF	FF	00	00	00	00
DS:0040	05	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00

1 Step 2 ProcStep 3 Retrieve 4 Help ON 5 BRK Menu 6 7 up 8 dn 9 le 10 ri

## Example# 2.10 With Loop:

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD

Register	Value	Register	Value	Register	Value	Register	Value	Stack	Value	Flags	Value
AX	012C	SI	0000	CS	19F5	IP	0130	Stack	+0 0000	Flags	7244
BX	0014	DI	0000	DS	19F5				+2 20CD		
CX	0035	BP	0000	ES	19F5	HS	19F5		+4 9FFF	OF	DF
DX	0000	SP	FFFE	SS	19F5	FS	19F5		+6 EA00	0	0

CMD >

Address	Instruction	Comment
012D A31701	MOV	[0117],AX
0130 B8004C	MOV	AX,4C00
0133 CD21	INT	21
0135 D2	DB	D2
0136 7504	JNZ	013C
0138 85C0	TEST	AX,AX
013A 741C	JZ	0158
013C C746DC0000	MOV	[BP-24],0000
0141 8E5EFC	MOV	DS,[BP-04]

Address	Value	Address	Value
DS:0100	E9 16 00 0A 00 14 00 1E	DS:0108	00 28 00 32 00 0A 00 14
DS:0110	00 1E 00 28 00 32 00 2C	DS:0118	01 B8 00 00 BB 00 00 03
DS:0120	87 03 01 81 C3 02 00 81	DS:0128	FB 14 00 75 F2 A3 17 01
DS:0130	B8 00 4C CD 21 D2 75 04	DS:0138	85 C0 74 1C C7 46 DC 00
DS:0140	00 8E 5E FC 83 7D 0E 00	DS:0148	74 09 8B 46 F2 48 3B 46

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## Example# 2.10 Without Loop

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: AFD

Register	Value	Register	Value	Register	Value	Register	Value	Stack	Value	Flags	Value
AX	01F9	SI	0000	CS	19F5	IP	012D	Stack	+0 19F5	Flags	7244
BX	0014	DI	0000	DS	19F5				+2 0000		
CX	0032	BP	0000	ES	19F5	HS	19F5		+4 20CC	OF	DF
DX	0000	SP	FFFC	SS	19F5	FS	19F5		+6 9FFF	0	0

CMD >

Address	Instruction	Comment
012A A31401	MOV	[0114],AX
012D B8004C	MOV	AX,4C00
0130 CD21	INT	21
0132 57	PUSH	DI
0133 0285D275	ADD	AL,[75D2+DI]
0137 0485	ADD	AL,85
0139 C0	DB	C0
013A 741C	JZ	0158
013C C746DC0000	MOV	[BP-24],0000

Address	Value	Address	Value
DS:0100	0A 00 14 00 1E 00 28 00	DS:0108	32 00 0A 00 14 00 1E 00
DS:0110	28 00 32 00 F9 01 B8 00	DS:0118	00 BB 00 00 03 87 00 01
DS:0120	81 C3 02 00 81 FB 14 00	DS:0128	75 F2 A3 14 01 B8 00 4C
DS:0130	CD 21 57 02 85 D2 75 04	DS:0138	85 C0 74 1C C7 46 DC 00
DS:0140	00 8E 5E FC 83 7D 0E 00	DS:0148	74 09 8B 46 F2 48 3B 46

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