ECMA

EUROPEAN COMPUTER MANUFACTURERS ASSOCIATION

ECMA STANDARD

for the

GRAPHIC REPRESENTATION OF CONTROL CHARACTERS OF THE ECMA 7 BIT CODED CHARACTER SET FOR INFORMATION INTERCHANGE

November 1968

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BRIEF HISTORY

The Committee TC 1 of ECMA for I/O Codes issued in April 1965 their Standard ECMA-6 for the 7 Bit Coded Character Set for Information Interchange. It appeared that in certain applications there is a need for a graphical representation of the control characters which are normally non-printing characters. Different proposals for a pictorial representation were considered and exchanged with a working party of the USA Standards Institute (USASI).

At the same time the Deutscher Normenausschuss (DNA) proposed an alphanumeric abbreviation. This work has also been considered when finalizing the present document.

This Standard ECMA-17 has been adopted by the General Assembly of November 28, 1968.

GRAPHIC REPRESENTATION OF THE CONTROL CHARACTERS OF
THE ECMA 7 BIT CODED CHARACTER SET
FOR INFORMATION INTERCHANGE

1. SCOPE

1.1 This Standard ECMA-17 provides for a graphical represen-
tation of the control characters of columns 0 and 1 of
the ECMA 7 bit coded character set for information inter-
change (Standard ECMA-6). It also provides for the nor-
mally non-printing character SPACE (position 2/0 of the
Code Table) and for the character DELETE (position 7/15
of the Code Table).

1.2 The Standard comprises two alternative sets of repre-
sentations :

    i) a pictorial representation,
    ii) an alphanumeric representation.

2. PURPOSE

These representations are intended for such applications
as monitoring or diagnostic printers or display devices,
where the graphical representation of these normally non-
printing characters is required. They also can be used as
designation of the control characters.

3. NOTES

3.1 There is no necessity to implement all symbols.

3.2 Each pictorial or alphanumeric representation is to be
considered as a single symbol. It may occupy either
one or more positions on a printed or displayed line
depending on the implementation.

3.3 The precise font design for the symbols is not part
of the Standard.

STANDARD GRAPHIC REPRESENTATIONS

Code position	Character	Pictorial repr.	Alphanumeric repr.
0/0	Nul	□	NU
0/1	TC_1	⌐	SH
0/2	TC_2	⊥	SX
0/3	TC_3	⌐	EX
0/4	TC_4	⚡	ET
0/5	TC_5	⊠	EQ
0/6	TC_6	✓	AK
0/7	Bell	◠	BL

Code position	Character	Pictorial repr.	Alphanumeric repr.
0/8	FE$_0$		BS
0/9	FE$_1$		HT
0/10	FE$_2$		LF
0/11	FE$_3$		VT
0/12	FE$_4$		FF
0/13	FE$_5$		CR
0/14	SO		SO
0/15	SI		SI

Code position	Character	Pictorial repr.	Alphanumeric repr.
1/0	TC_7		D L
1/1	DC_1		D 1
1/2	DC_2		D 2
1/3	DC_3		D 3
1/4	DC_4		D 4
1/5	TC_8		NK
1/6	TC_9		SY
1/7	TC_{10}		EB

Code position	Character	Pictorial repr.	Alphanumeric repr.
1/8	CAN	$\bowtie$	CN
1/9	EM		EM
1/10	SUB		SB
1/11	ESC	$\ominus$	EC
1/12	IS_4		FS
1/13	IS_3		GS
1/14	IS_2		RS
1/15	IS_1		US

Code position	Character	Pictorial repr.	Alphanumeric repr.
2/0	SPACE	△	SP
7/15	DELETE	▨	DT