Compound Text Encoding

X Consortium Standard

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!

" #

$

"%& '(")*+& , +'-,.&. * ,),"%'/")*++*0"1 '(*01
2,0. &3 +& '+ ,4 5,&. ,065/.,07 8/" 0'" 5,4,"&. "' "%&
)*++*0",& '(4&+6%*0"*8,5,"1 (,"0& ('+ * *+",6/5*+
/+ ' & *0. 0'0,0(+,07&4&0'$,0 0' &-&0" %*55 "%& 3
6'0 '+",/4 8& 5,*85& ('+ *01 65*,4 .*4*7& '+ '"%&+ 5,*8,5,
"1)%&"%&+ ,0 *0 *6","0 '(6'0"+*6" "'+" '+ '"%&+), &
+, ,07 (+'4 '/" '('+ ,0 6'00&6","0),"% "%& '(")+& '+
"%& / & '+ '"%&+ .&*5,07 ,0 "%& '(")*+&$

&9 3 6

#

: 3 6 $

Table of Contents

'# # $$$$

$ 6 "9 9 !

,6664 ; $ $
,6664 ; $ $ 3 3 , $

6 "9 9
$, 9 <
6 "9
6 "9
9 $

Values

" 6'4 '/0.="&3" $) 9 #
,6664
6'4 '/0.="&3" $

' #
$ " # > ?@ A $ (9 BC B? #
DD$

(# !

6B	BB BB	B? ?E
75	BC BB	BF ?E
6?	BG BB	BH ?E
7+	?B BB	?E ?E

6B 6? 75 7+
$ ' 6B 6?
75 7+ 75 7+
; $ * BB BB ?E ?E
9 9 $

I(, ' CBCC G #
7B 75 7? 7+$J

Control Characters

, 6B # !

BB BH	%"	%'+,K'0"*5 "*8/5*",'0
BB ?B	05	0&) 5,0&
B? ??	& 6	& 6* &

, 6? # !

BH ??	6 ,	6'0"+'5 &L/&06& ,0"+'./6&+

I" F 6 , B? ?? BE ?? 6 "9 $J

0 < 6 "9 6B 6?
$

* : BB BH$
6 "9 9
$

I, : "+,07
,6664$J

* BB ?B$

I0 BB ?B 5,0&(&&. 0&)5,0&$ "
0&) 5,0& &$?$D , ' @MCH$
/ # BG BE 0&5 0&3" 5,0&
"+,07 ,6664$J

" 6B 6? # B? ?? BH ??
< $

Standard Character Set Encodings

" 75 7+ 6 "9 #
, ' GGEH ? 5 ? $ * "+,07
,6664 6'4 '/0.="&3'$

I" , ' CBCC < ! B? ?? BC BB
BM BD 7' 7? G # $. # N $ B? ?? BC BB
BM BF , G # 6? G $ B? ?? BC BB BM BH 7
HM H@$ B? ?? BC BB BM ?? G $ B? ?? BC BG
BM BC . * 6,, 7B$ B? ?? BC ?D BM B? . , '
5 ? 7?$ J

" # 75
< !

B? ?? BC BG O,P (HM
B? ?? BC BM BC BGO,P (HM0

" # 7+
< !

B? ?? BC BH O,P (HM
B? ?? BC ?D O,P (H@
B? ?? BC BM BC BH O,P (HM0

" (< # (
BM BB BF ?M$ " O,P :
BC BB BC ?E
BC B? BC BD$ "
O,P (< $

I(# BD BB BD ?E
6 "9 $J

(75 BC BB *6& BF ?E .&5&"&
$ (HM 7+ ?B BB ?E ?E
$

I" , ' CBCC$J

* HM[0] 0 0 Q ? $ " # 0
# # (!

BM BE C
B@ D
BF M

, HM [0] # BC BB BF ?E 75 ?B BB ?E ?E
7+ # $

I" , ' CBCC$J

' 75 7+ 9
< 9
75 7+ $ 75 7+
$

0 7+
BG BB
?B BB ?E ?E$

I6 < # @D?D
, ' CBCC 6 "9 $ + #
9 6 "9 $ "
$J

Approved Standard Encodings

" # 6 "9 $
0 # , ; #
, #
$

M BC	HM	F * 6,, *0 , 3D$M ?H@G 5 , ' GGEH
BM BH	HM	+ R, 3BCB? ?HF@ ?HGM G 8 * 2 N 6
BM ?B	HM	5 R, 3BCB? ?HF@ ?HGM G 8 * 2 N 6
BM B?	H@	+ , ' GGEH ? 5 0 $?
BM BC	H@	+ , ' GGEH C 5 0 $ C
BM BD	H@	+ , ' GGEH D 5 0 $ D
BM BM	H@	+ , ' GGEH M 5 0 $ M

BM B@	H@	+	, ' GGEH F 5 7 N
BM BF	H@	+	, ' GGEH @ 5 *
BM BG	H@	+	, ' GGEH G 5 %
BM ?C	H@	+	, ' GGEH E 5 6
BM ?D	H@	+	, ' GGEH H 5 0 $ E
BM B?	HMC	78CD?C ?HGB 6	+6 % :
BM BC	HMC	R, 3BCBG ?HGD R	7 6
BM BD	HMC	2 6E@B? ?HGF 2	7 6

" 5 $$$ 75$ "
+ $$$ 7+$ '
75 7+$

Non-Standard Character Set Encodings

6 #
9 $ * 9
< !

B? ?? C BE BC ?E BD BB 4 #
5

B? ?? C BE BC ?E BD B? 4 ?
5

B? ?? C BE BC ?E BD BC 4 C
5

B? ?? C BE BC ?E BD BD 4 D
5

B? ?? C BE BC ?E BD BM 4 M
5

I" , ' CBCC # ($J

" 4 5 ?M # #
$ " 4
?CG > ?CG A 5 ?CG $ " 4 5 $
"
9 $ "
9 BB BC "3 "*+" '("&3" $ 0
4 5 $

I" # # : 6 "9
0/5 # 6
$ " : #
9 9 # : $J

" 3 6 #
6 + &
3 5 (. $ "

, ' GGEH ? 5 ? < N BD ?E N
BC ?B BC ?D 3 5 (
. $

&9
75 7+ # $ (9
9 , ' GGEH $

, 9 ; 9
6B 6? BB BB
$

I, ' 6 "9 ; 9
CBCC $J

Directionality

, : 9
< !

BH ?? BD B? BE ?D 9
BH ?? BD BC BE ?D 9
BH ?? BE ?D

I" . "*+" .,+&6"&. "+,07 . 8
* , ' @MCH$J

. $ 5 N $ &
< N
< # N$ " N
6 "9 $) N
9 $

. < 9 75 7+ 9
$, 75 7+ 9
< $

0 75 7+ ;
75 7+
75 7+ $

; 9
9 $ % #
6 "9 # 9 #
$ " <
< 6 "9
N
$

Resources

" 6 "9
* 6,, 5 ? S BE ?C SS

BB ?B S :
SBBB $, N
6 "9 ;
6 "9 $

Font Names

" 6
3 5 (. !

, 'GGEH ?	, 'GGEH ?	5	0 $?
, 'GGEH C	, 'GGEH C	5	0 $ C
, 'GGEH D	, 'GGEH D	5	0 $ D
, 'GGEH M	, 'GGEH M	5	0 $ M
, 'GGEH E	, ' GGEH E	5	6
, 'GGEH @	, ' GGEH @	5	*
, 'GGEH F	, 'GGEH F	5	7 N
, 'GGEH G	, 'GGEH G	5	%
, 'GGEH H	, 'GGEH H	5	0 $ E
R, 3BCB?$?HF@ B	R, 3BCB? ?HF@ ?HGM	G	* 2 N 6
78CD?C$?HGB B	78CD?C ?HGB 75	6	+6 % :
R, 3BCBG$?HGD B	R, 3BCBG ?HGD 75	R	7 6
2 6E@B?$?HGF B	2 6E@B? ?HGF 75	2	7 6

Extensions

" <
9 $ % # 6
"9 9
CBCC @MCH 9 $

" # < 9
9 !

B? ?? O,P (

(, BC BB BC ?E (
BD BB BF ?M$

BH ?? O P O,P (

(BD BB BD ?E ,
BC BB BC ?E (BM BB BF ?M$

, 6B 6?
$

(N 9
9 !

B? ?? BC BE BC ?E (4 5

((BD BE D ?E$ 4 5 9
$
4 5$ " # #
9 $

, 9
9
< !

B? ?? BC BD - BD BB 9 '2
B? ?? BC BD - BD B? 9 '2

, - BC BB BC ?E #
$ " # <
# # $
" < 9
< ; $ "
< 9
< ; $,
6 "9 <
$

Errors

, 6 "9 $ $
<
9 # 9
< $