Universal Multiple-Octet Coded Character Set
International Organization for Standardization
Organisation internationale de normalisation
Международная организация по стандартизации

1. Introduction. Van Anderson's work toward encoding Duployan is quite excellent. Ireland has no reservations about the character set proposed for encoding. We have, however, technical concerns about the structure of the code table proposed in document N3895.

Our technical concerns have to do with the proposed sorting order. Mr Anderson notes that, for the most part, users of Duployan shorthands and Chinook have had very little experience with actually sorted text. In the context of UCS implementation, of course, this will not be the case. Files named in Duployan will be sorted by the OS. The question is how.

2. Sorting by shape. Mr Anderson rightly constructs an ordering based on shape. Although it is probable that few users of Duployan have expectations about ordering, basing an ordering on shape is a sensible and useful way of proceeding. It is not without precedent. Users of Blissymbols have a dictionary which has three separate orderings:

> • Finding Symbols by Word (an English-to-Bliss glossary)
> • Finding Symbols by Meaning (a thesaurus arranged by semantic field)
> • Finding Symbols by Shape (a Bliss-to-English dictionary ordered by character)

Mr Anderson's ordering based on shape will very likely prove to be useful to users of Duployan. Certainly the same principles as applied in Blissymbols have been implemented very successfully, and users of the *Blissymbol Reference Guide* have learnt the sequence quickly and have no trouble finding things by shape.

3. Organization of the code chart. Although we recognize and agree that the ISO/IEC 14651 and the Unicode Collation Algorithm ordering as specified in N3895 is useful, we believe that the ordering of the characters as presented in the code chart will prove to work against the end user in environments where 14651 and the UCA are not properly implemented. The code chart sequence arranges the characters according to quite *different criteria* than those which are used for ordering, and we do not believe that the proposer's chart ordering could be or should be considered useful to the end user. We do recognize that it has a structure. Unfortunately the structure is based on the wrong axis, in our view.

A look at the code table in N3895 shows that it is organized on a horizontal axis, This makes for an "attractive" code table with some paedagogical features—but this does not make a useful code table in terms of technical functionality. Having acknowledged the usefulness of Mr Anderson's proposed ordering scheme, we suggest that the code chart order *also* be based on the principles of Mr Anderson's

sorting order, rather than on a secondary classification as it currently is. The benefit of this will be immediate—even a binary sort of data based on such a system will be more similar to the specification of 14651 and the UCA than a binary sort based on the code chart of N3895 would be.

4. "Optimization". Mr Anderson's proposal suggests that some sort of "optimization" might be had if columns 0 and 1 contain high-frequency characters. We do not believe that any genuine benefit accrues here. The Basic Latin and Latin-1 binary sort does not interfile *AaÁáBbCcÇçDdÐð*, but rather *ABCDabcd* and *ÁÇÐáçð* respectively, and the letters in Latin 1 (which constitute the bulk of Latin-script languages used) is distant enough from the four columns in Basic Latin. "Optimization" is evidently no great concern there.

Our view is that the better optimization of the Duployan code chart would be to have its binary order follow the order proposed for sorting the script in general. We give a chart below which orders Duployan according to those principles. We have not altered any of the glyphs or character names in Mr Anderson's proposal, apart from the five "dotted-box" glyphs which we have normalized to the same conventions of size of similar glyphs in the UCS. We also made some corrections to spelling errors in the informative annotations in the names list.

5. Issue: Expansion. In Mr Anderson's proposal some blanks are left here and there within the code chart, evidently for potential additions. For instance, between U+1BC63 and U+1BC66 two spaces are left. One might surmise that the following two characters are envisaged:

1BC63	⊤
1BC64	* ⊤
1BC65	* ⟋
1BC66	⟋

We would have no issue with re-inserting such gaps in the re-ordered chart and would welcome Mr Anderson's advice on this point.

6. Issue: Ordering within shape-classes. In some instances we are uncertain why the specific ordering has been chosen. For example, Mr Anderson's ordering gives the following:

We are not certain why the long arcs have been inserted where they are. Why is the sequence not the following, which does not break up the original triple of arc, arc-with-stroke, and arc-with-dot?

Another example which seems to be inconsistent is based on the arc-with-dot patterns. If dot-above precedes dot-below in the consonants, why does it not do so in the vowels? In the example below, the first four characters are ordered as in Mr Anderson's proposal, and the second four show an ordering which we might recommend.

A third example has to do with the half-arcs. Shouldn't the relative ordering of the vowel arcs be consistent with the consonant arcs? In the example below, the first eight characters are ordered as in Mr Anderson's proposal, and the second eight show an ordering which we might recommend.

A fourth example has to do with the quarter-arcs. Here there are downward sloping and upward sloping Shouldn't the relative ordering of the vowel arcs be consistent with the consonant arcs? In the example below, the first set of characters are ordered as in Mr Anderson's proposal, and the second set shows an ordering which we might recommend.

We would also like clarification of the relative order of the quarter-circle vowels including DUPLOYAN LETTER U N and DUPLOYAN LETTER ROMANIAN U.

We would welcome discussion with Mr Anderson on these particulars, and perhaps the current ordering scheme could be made somewhat more regular, if it has not otherwise been optimized according to principles with which we are not familiar.

The Irish National Body favours the encoding of Mr Anderson's Duployan character set, but would prefer a reorganization of the code chart. Such a reorganization might take place during ballot comments if there is not sufficient time to agree on the outstanding points before a new ballot is sent out after the Busan meeting of WG2.

7. Bibliography.

Wood, Claudia, Jinny Storr, and Peter A. Reich. 1992. *Blissymbol Reference Guide*. Toronto: Blissymbolics Communication International. ISBN 0-9690516-9-7

Figure 1a. Sample from Anderson's proposal showing lines in various orientations and sizes.
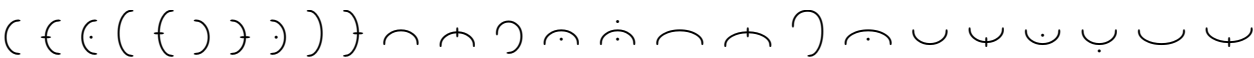
Figure 1b. Sample from Anderson's proposal showing half-circles in various orientations and sizes.
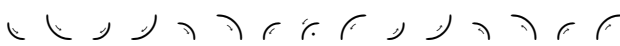
Figure 1c. Sample from Anderson's proposal showing quarter-circles in various orientations and sizes.
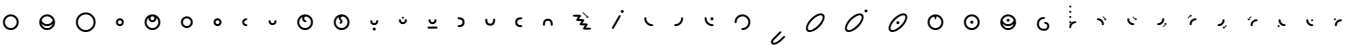
Figure 1d. Sample from Anderson's proposal showing vowels arranged in various shapes.
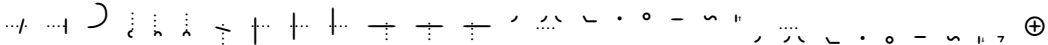
Figure 1e. Sample from Anderson's proposal showing secants and other connectors organized according to evidently sensible criteria.

Section III
FINDING Symbols by SHAPE

Figure 2. Sample from Woods et al. 1992 showing the index to the "Finding Symbols by Shape" section of the *Blissymbols Reference Guide*.

Half Circles

plan, design, method, system	turtle, tortoise	**Large top half, between midline and earthline**
plan (to), design (to)	incorrect, bad, inaccurate, wrong	swan
family planning	guilt	fish
diet	guilty	goldfish, guppy, pet fish
tune, melody	selfish, self-centred	eel
alpana	considerate, thoughtful	starfish
organize (to), arrange (to)	doubt (to)	shark
invent (to)	probable, likely, probably	morning (early)
type, kind, sort	guess (to), estimate (to)	horizon
fan	interesting	sunrise
correct, accurate, good, right	important, significant	sunset
science	calculate (to)	**Large right half**
truth	lead (to), direct (to), guide (to)	curved line, curve
true, truly, truthful, truthfully	govern (to), rule (to)	**Large bottom half**
mathematics, arithmetic, math	self-control	container, bowl, holder, pouch
beetle	control oneself (to)	hold (to), contain (to)

Blissymbol Reference Guide

Figure 3. Sample from Woods et al. 1992 showing a subset of the characters organized by half-circle in the "Finding Symbols by Shape" section of the *Blissymbols Reference Guide*. At the top of the page the "alphabet" is given and a square box shows which section the reader is in. This is used to help readers orient themselves when looking up Bliss-words.

	1BC0	1BC1	1BC2	1BC3	1BC4	1BC5	1BC6	1BC7	1BC8	1BC9
0	1BC00	1BC10	1BC20	1BC30	1BC40	1BC50	1BC60	1BC70	1BC80	
1	1BC01	1BC11	1BC21	1BC31	1BC41	1BC51	1BC61	1BC71	1BC81	
2	1BC02	1BC12	1BC22	1BC32	1BC42	1BC52	1BC62	1BC72	1BC82	
3	1BC03	1BC13	1BC23	1BC33	1BC43	1BC53	1BC63	1BC73	1BC83	
4	1BC04	1BC14	1BC24	1BC34	1BC44	1BC54	1BC64	1BC74	1BC84	
5	1BC05	1BC15	1BC25	1BC35	1BC45	1BC55	1BC65	1BC75	1BC85	
6	1BC06	1BC16	1BC26	1BC36	1BC46	1BC56	1BC66	1BC76	1BC86	
7	1BC07	1BC17	1BC27	1BC37	1BC47	1BC57	1BC67	1BC77	1BC87	
8	1BC08	1BC18	1BC28	1BC38	1BC48	1BC58	1BC68	1BC78	1BC88	
9	1BC09	1BC19	1BC29	1BC39	1BC49	1BC59	1BC69	1BC79	1BC89	
A	1BC0A	1BC1A	1BC2A	1BC3A	1BC4A	1BC5A	1BC6A	1BC7A	1BC8A	
B	1BC0B	1BC1B	1BC2B	1BC3B	1BC4B	1BC5B	1BC6B	1BC7B	1BC8B	
C	1BC0C	1BC1C	1BC2C	1BC3C	1BC4C	1BC5C	1BC6C	1BC7C	1BC8C	
D	1BC0D	1BC1D	1BC2D	1BC3D	1BC4D	1BC5D	1BC6D	1BC7D	1BC8D	
E	1BC0E	1BC1E	1BC2E	1BC3E	1BC4E	1BC5E	1BC6E	1BC7E	1BC8E	
F	1BC0F	1BC1F	1BC2F	1BC3F	1BC4F	1BC5F	1BC6F	1BC7F		

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Dot consonants

1BC00 · DUPLOYAN LETTER H
• Chinook, Pernin, Sloan, Perrault
• non-joining character

1BC01 ' DUPLOYAN LETTER X
• Salishan
• non-joining character

Vertical-line consonants

1BC02 ' DUPLOYAN LETTER P
• Chinook number 1

1BC03 | DUPLOYAN LETTER B
→ 1BC72 ├ duployan affix low vertical secant
→ 1BC73 ├ duployan affix mid vertical secant
→ 1BC74 ├ duployan affix high vertical secant

1BC04 | DUPLOYAN LETTER P N
= Sloan B B
→ 1BC1E) duployan letter n

Horizontal-line consonants

1BC05 – DUPLOYAN LETTER T
• Chinook number 2

1BC06 ⁀ DUPLOYAN LETTER TH
• Chinook, Sloan, Pernin, Perrault

1BC07 – DUPLOYAN LETTER SLOAN DH

1BC08 — DUPLOYAN LETTER D
→ 1BC75 ┬ duployan affix left horizontal secant
→ 1BC76 ┬ duployan affix mid horizontal secant
→ 1BC77 ┬ duployan affix right horizontal secant

1BC09 ⁀ DUPLOYAN LETTER DH
• Chinook
→ 1BC08 — duployan letter d

1BC0A — DUPLOYAN LETTER D S
= Sloan D D
→ 1BC2C ‿ duployan letter s

Northwest-to-southeast diagonal-line consonants

1BC0B \ DUPLOYAN LETTER F
• Chinook number 3

1BC0C \ DUPLOYAN LETTER V

1BC0D \ DUPLOYAN LETTER F N
= Sloan V V
→ 1BC1E) duployan letter n

Northeast-to-southwest diagonal-line consonants

1BC0E ⁄ DUPLOYAN LETTER K
• Chinook number 4
• written down and to the left

1BC0F ⁄ DUPLOYAN LETTER KK
• Chinook
• written down and to the left

1BC10 ⁄ DUPLOYAN LETTER G
• written down and to the left

1BC11 ⁄ DUPLOYAN LETTER SLOAN J
• written down and to the left

1BC12 / DUPLOYAN LETTER K M
• written down and to the left
= Sloan G G
→ 1BC19 (duployan letter m

Southwest-to-northeast diagonal-line consonants

1BC13 ⁄ DUPLOYAN LETTER L
• written up and to the right
= Pernin letter R

1BC14 ⁄ DUPLOYAN LETTER HL
• Chinook
• written up and to the right

1BC15 ⁄ DUPLOYAN LETTER LH
• Chinook
• written up and to the right

1BC16 ⁄ DUPLOYAN LETTER R
• Chinook number 5
• French number milliards
• written up and to the right
= Pernin letter L
= Pernin Reporters word repeat sign

1BC17 ⁄ DUPLOYAN LETTER RH
• Chinook
• written up and to the right

1BC18 ⁄ DUPLOYAN LETTER R S
• written up and to the right
= Sloan R R
→ 1BC2C ‿ duployan letter s

Left half-circle consonants

1BC19 (DUPLOYAN LETTER M
• Chinook Number 6

1BC1A { DUPLOYAN LETTER M N
• Romanian Mai mult, not Romanian Mult mai shorthand sign
→ 1BC1E) duployan letter n

1BC1B (DUPLOYAN SIGN M WITH DOT
= Romanian sign Mijloc)

1BC1C (DUPLOYAN LETTER M S
= Sloan shorthand letter M M
→ 1BC2C ‿ duployan letter s

1BC1D { DUPLOYAN LETTER M N S
→ 1BC1E) duployan letter n
→ 1BC2C ‿ duployan letter s

Right half-circle consonants

1BC1E) DUPLOYAN LETTER N
• Chinook number 7

1BC1F } DUPLOYAN LETTER N M
• not Romanian nu nu shorthand sign
→ 1BC19 (duployan letter m

1BC20) DUPLOYAN LETTER N WITH DOT
= Chinook NG
= Romanian sign Nici

1BC21) DUPLOYAN LETTER N S
= Pernin, Sloan, Perrault letter NG
→ 1BC2C ‿ duployan letter s

1BC22 } DUPLOYAN LETTER N M S
→ 1BC19 (duployan letter m
→ 1BC2C ‿ duployan letter s

Top half-circle consonants

1BC23 ⌒ DUPLOYAN LETTER J
    • Chinook number 8
    = Chinook letter SH
    = Pernin letter SH

1BC24 ⌒ DUPLOYAN LETTER J M
    • not Romanian ceea ce shorthand sign
    → 1BC19 (duployan letter m

1BC25 ◠ DUPLOYAN LETTER J N
    → 1BC1E) duployan letter n

1BC26 ⌒ DUPLOYAN LETTER J WITH DOT
    = Chinook, Romanian CH
    = Sloan ZH
    = Chinook, Perrault J

1BC27 ⌒ DUPLOYAN SIGN J WITH DOTS INSIDE AND
    ABOVE
    = Romanian sign Ici

1BC28 ⌒ DUPLOYAN LETTER J S
    = Romanian stenographic letter Ge
    = Pernin, Perrault letter ZH
    = Sloan letter CH
    → 1BC2C ◡ duployan letter s

1BC29 ⌒ DUPLOYAN LETTER J M S
    → 1BC19 (duployan letter m
    → 1BC2C ◡ duployan letter s

1BC2A ◠ DUPLOYAN LETTER J N S
    → 1BC1E) duployan letter n
    → 1BC2C ◡ duployan letter s

1BC2B ⌒ DUPLOYAN LETTER J S WITH DOT
    = Sloan letter hard CH
    = Pernin, Perrault letter Ch

Bottom half-circle consonants

1BC2C ◡ DUPLOYAN LETTER S
    • Chinook number 9
    • French Hundreds

1BC2D ◡ DUPLOYAN LETTER S J
    • not Romanian sa se shorthand sign
    → 1BC23 ⌒ duployan letter j

1BC2E ◡ DUPLOYAN LETTER S WITH DOT
    = Chinook TS
    = Chinook, Romanian, Sloan Z

1BC2F ◡ DUPLOYAN LETTER S WITH DOT BELOW
    = Romanian Sh

1BC30 ◡ DUPLOYAN LETTER S S
    • French, Sloan
    = Romanian stenographic letter Ts
    = Pernin, Perrault letter Z
    → 1BC2C ◡ duployan letter s

1BC31 ◡ DUPLOYAN LETTER S J S
    → 1BC23 ⌒ duployan letter j

Downward-sloping quarter-arc consonants

1BC32 ◝ DUPLOYAN LETTER S T
    • Pernin, Perrault
    • written down
    = Sloan SM

1BC33 ◝ DUPLOYAN LETTER S T R
    • Pernin, Perrault
    • written down
    = Sloan SN

1BC34 ◞ DUPLOYAN LETTER S P
    • Pernin, Perrault
    • written down
    = Sloan KW

1BC35 ◞ DUPLOYAN LETTER S P R
    • Pernin, Perrault
    • written down
    = Sloan SKW

1BC36 ◞ DUPLOYAN LETTER T S
    • written down
    • Perrault
    = Sloan STD

1BC37 ◞ DUPLOYAN LETTER T R S
    • written down
    • Perrault
    = Sloan SST

1BC38 ◠ DUPLOYAN LETTER W
    • Sloan, Perrault, Pernin
    • written down
    • takes form of a hook or wave after K and G

1BC39 ◠ DUPLOYAN LETTER WH
    • written down

1BC3A ◠ DUPLOYAN LETTER W R
    • written down
    • Perrault
    = Sloan SW

Upward-sloping quarter-arc consonants

1BC3B ◟ DUPLOYAN LETTER S N
    • written up
    • Perrault
    = Pernin KRS
    = Sloan SP

1BC3C ◟ DUPLOYAN LETTER S M
    • written up
    • Perrault
    = Pernin GRS
    = Sloan SL

1BC3D ◝ DUPLOYAN LETTER K R S
    • written up
    • Perrault

1BC3E ◝ DUPLOYAN LETTER G R S
    • written up
    • Perrault

1BC3F ◠ DUPLOYAN LETTER S K
    • written up
    • Perrault, Pernin
    = Sloan TS

1BC40 ◠ DUPLOYAN LETTER S K R
    • written up
    • Perrault, Pernin
    = Sloan DS

Large circle vowels

1BC41 ○ DUPLOYAN LETTER O
    • Chinook number 0

1BC42 ⊙ DUPLOYAN LETTER WO
    • Chinook

1BC43 ○ DUPLOYAN LETTER AOU

Small circle vowels

1BC44 ◦ DUPLOYAN LETTER A
• Chinook number 10s
1BC45 ◉ DUPLOYAN LETTER WA
• Chinook
• Not Romanian O+A
= Perrault letter OY
• Chinook number 100s
1BC46 ◌ DUPLOYAN LETTER OA
= Pernin letter AW
= Perrault letter AW
1BC47 ◦ DUPLOYAN LETTER SLOAN OW
• reverse circle vowel

Small half-circle vowels

1BC48 ‹ DUPLOYAN LETTER I
• character rotates to match entry angle of
preceding consonant
• character has primary orientation (right and up)
= Perrault letter long A, short E (with accents)
→ 1BC6F ⸎ duployan affix attached e hook
→ 1BC6E ⸎ duployan affix attached i hook
→ 1BC4F › duployan letter short i
→ 1BC50 ⌣ duployan letter ee
→ 1BC51 ‹ duployan letter ie
→ 1BC52 ⌢ duployan letter ui
1BC49 ⌄ DUPLOYAN LETTER E
• character rotates to match entry angle of
preceding consonant
• character has secondary orientation (left and
down)
= Sloan letter long A
= Perrault letter short I, long E (with dot accent)
→ 1BC6F ⸎ duployan affix attached e hook
1BC4A ◎ DUPLOYAN LETTER WI
• Chinook
1BC4B ◉ DUPLOYAN LETTER WEI
• Salishan
1BC4C ⌄ DUPLOYAN LETTER ROMANIAN I
• character rotates to match entry angle of
preceding consonant, with dot maintaining
relative position
• secondary orienting (left and down)
1BC4D ⌣ DUPLOYAN LETTER SLOAN EH
1BC4E ⌣ DUPLOYAN LETTER SLOAN EE

Medium half-circle vowels

1BC4F › DUPLOYAN LETTER SHORT I
• Pernin, Duployan shorthand
• used as an invariant vowel and for orienting
word abbreviations consisting of only vowels
→ 1BC48 ‹ duployan letter i
= Consolidated Duployan letter R T R
1BC50 ⌣ DUPLOYAN LETTER EE
• Pernin, Duployan shorthand
• used as an invariant vowel and for orienting
word abbreviations consisting of only vowels
→ 1BC48 ‹ duployan letter i

1BC51 ‹ DUPLOYAN LETTER IE
• Duployan shorthand
• used as an invariant vowel and for orienting
word abbreviations consisting of only vowels
→ 1BC48 ‹ duployan letter i
= Pernin letter A
1BC52 ⌢ DUPLOYAN LETTER UI
• Duployan shorthand
• used as an invariant vowel and for orienting
word abbreviations consisting of only vowels
→ 1BC48 ‹ duployan letter i
= Pernin letter E

Diagonal-line vowels

1BC53 ⟍ DUPLOYAN LETTER YE
1BC54 ╱ DUPLOYAN LETTER LONG I
• Pernin
• angles like an "F" when adjacent a K-type
consonant

Quarter-circle vowels

1BC55 ⌣ DUPLOYAN LETTER U
• character rotates to match entry angle of
preceding consonant
• character has primary orientation (right and up)
= Romanian stenographic letter EN
→ 1BC60 ◔ duployan letter romanian u
→ 1BC38 ⌐ duployan letter w
→ 1BC59 ⸗ duployan letter long u
1BC56 ⌣ DUPLOYAN LETTER EU
• character rotates to match entry angle of
preceding consonant
• character has secondary orientation (left and
down)
• in French usage, may be rendered with a dot
contextually
= Romanian stenographic letter AN
1BC57 ⌣ DUPLOYAN LETTER XW
= Perrault Uh
• not French Eu
1BC58 ⌣ DUPLOYAN LETTER U N
→ 1BC1E ⟩ duployan letter n

Oblong circle vowels

1BC59 ⸗ DUPLOYAN LETTER LONG U
• Pernin, Perrault
• this vowel does not rotate to match entry angle
of preceding consonant
→ 1BC5D ○ duployan letter ou
1BC5A ⊘ DUPLOYAN LETTER UH
• Sloan
→ 1BC5D ○ duployan letter ou
1BC5B ⊘ DUPLOYAN LETTER OOH
• Sloan
→ 1BC5D ○ duployan letter ou
1BC5C ⊘ DUPLOYAN LETTER SLOAN U
→ 1BC5D ○ duployan letter ou

Dot vowels

1BC5D   o   DUPLOYAN LETTER OU
- should not be used for Perrault Ow
- ≈ <initial, final> 1BC5E ⊙
- = Chinook letter oo
- → 1BC60 ɕ duployan letter romanian u
- → 1BC5A ⟋ duployan letter uh
- → 1BC5B ⟋ duployan letter ooh
- → 1BC5C ⟋ duployan letter sloan u

1BC5E   ⊙   DUPLOYAN LETTER OW
- should not be used for Romanian U
- ≈ <medial> 1BC60 ɕ

1BC5F   ⊚   DUPLOYAN LETTER WOW
- Salishan

Small quarter-circle vowels

1BC60   ɕ   DUPLOYAN LETTER ROMANIAN U
- → 1BC5E ⊙ duployan letter ow

1BC61   ꜜ   DUPLOYAN LETTER VOCALIC M
- primary orienting vowel
- = Perrault letters Am, Em, Im, Um (with accents)

1BC62   ˇ   DUPLOYAN LETTER NASAL I
- character positions diacritically, as an orienting vowel, or as an invariant vowel
- primary orientation
- invariant direction down
- Romanian multiplicative number prefix
- = Pernin letter IM
- = Consolidated Duployan affix INT-R-

1BC63   ˘   DUPLOYAN LETTER NASAL U
- character positions diacritically, as an orienting vowel, or as an invariant vowel
- secondary orientation
- invariant direction down
- French number 1
- = Pernin letter IN
- = Consolidated Duployan affix INT-R-

1BC64   ˄   DUPLOYAN LETTER NASAL O
- character positions diacritically, as an orienting vowel, or as an invariant vowel
- neutral nasal vowel for transcription of an ambiguous secondary orienting nasal vowel
- secondary orientation
- invariant direction up
- = Pernin letter OM
- = Perrault letters An, En, In, Un (with accents)
- = Pernin letter IM
- = Consolidated Duployan affix INT-R-

1BC65   ˅   DUPLOYAN LETTER NASAL A
- Perrault vocalic N - An, En, In, Un (with accents)
- character positions diacritically, as an orienting vowel, or as an invariant vowel
- neutral nasal vowel for transcription of an ambiguous primary orienting nasal vowel
- primary orientation
- invariant direction up
- = Pernin letter ON
- = Romanian stenographic letter YN

1BC66   ˅   DUPLOYAN LETTER PERNIN AN
- written down

1BC67   ˒   DUPLOYAN LETTER PERNIN AM
- written down

1BC68   ˪   DUPLOYAN LETTER SLOAN AN
1BC69   ˪   DUPLOYAN LETTER SLOAN EN
1BC6A   ˺   DUPLOYAN LETTER SLOAN ON

Attached affixes

1BC6B   ⊣   DUPLOYAN AFFIX ATTACHED SECANT
- dots show position on and relative orientation to base glyph and are not rendered
- as a prefix, takes opposite relative position to following glyph
- generally crosses adjacent character at perpendicular, but has a bias towards SW/NE angle to contrast 1BC71 ⊣
- default neutral secant affix
- = French suffix -anse
- = Pernin prefix Pre-
- = Sloan affix Ax-/-ext

1BC6C   ⊣   DUPLOYAN AFFIX ATTACHED TANGENT
- dots show position on and relative orientation to base glyph and are not rendered
- as a prefix, takes opposite relative position to following glyph
- = French suffix -tan
- = Romanian shorthand letter Str-/-str

1BC6D   ⊃   DUPLOYAN AFFIX ATTACHED TAIL
- orienting character
- = French suffix -sionaire

1BC6E   ˛   DUPLOYAN AFFIX ATTACHED I HOOK
- glyph is retrograde and opens left or right, dependent on preceding letter
- dots show position of preceding glyph and are not rendered
- → 1BC48 ˂ duployan letter i
- = French suffix -tou
- = Sloan affix Irre-/-ary

1BC6F   ˛   DUPLOYAN AFFIX ATTACHED E HOOK
- glyph is retrograde and opens up or down, dependent on preceding letter
- dots show position of preceding glyph and are not rendered
- → 1BC49 ˅ duployan letter e
- = French suffix -te

1BC70   ˛   DUPLOYAN AFFIX ATTACHED TANGENT HOOK
- attached affix
- dots show position on and relative orientation to base glyph and are not rendered
- = Romanian affix Ist-/-ism
- = Consolidated Duployan prefix T-R-

1BC71   ⊣   DUPLOYAN AFFIX ATTACHED LEFT-TO-RIGHT SECANT
- dots show position on and relative orientation to base glyph and are not rendered
- generally crosses adjacent character at perpendicular, but has a bias towards NW/SE angle to contrast 1BC6B ⊣
- as a suffix, takes opposite relative position to following glyph
- = Pernin prefix Per-

Vertical affixes

1BC72 †⋯ DUPLOYAN AFFIX LOW VERTICAL SECANT
= Pernin Reporters Sub-
• dots show position on base glyph and are not rendered
→ 1BC03 ∤ duployan letter b

1BC73 ∤⋯ DUPLOYAN AFFIX MID VERTICAL SECANT
= Pernin Reporters Trans-
• dots show position on base glyph and are not rendered
→ 1BC03 ∤ duployan letter b

1BC74 ∤⋯ DUPLOYAN AFFIX HIGH VERTICAL SECANT
= Pernin Reporters Super-
• dots show position on base glyph and are not rendered
→ 1BC03 ∤ duployan letter b

Horizontal affixes

1BC75 ⊹ DUPLOYAN AFFIX LEFT HORIZONTAL SECANT
= Pernin Reporters Extra-
• dots show position on base glyph and are not rendered
→ 1BC08 — duployan letter d

1BC76 ⊹ DUPLOYAN AFFIX MID HORIZONTAL SECANT
= Pernin Reporters Inter-
• dots show position on base glyph and are not rendered
→ 1BC08 — duployan letter d

1BC77 ⊹ DUPLOYAN AFFIX RIGHT HORIZONTAL SECANT
= Pernin Reporters Contra-
• dots show position on base glyph and are not rendered
→ 1BC08 — duployan letter d

High affixes

1BC78 ´ DUPLOYAN AFFIX HIGH ACUTE
= French suffix -ment
= Romanian suffix -mant
= Pernin Sub-
= Pernin Reporters' suffix Pro-
→ 02CA ´ modifier letter acute accent

1BC79 ⸴ DUPLOYAN AFFIX HIGH TIGHT ACUTE
= Pernin Pro-
• as a suffix, placed above and to the right of the following letter

1BC7A ` DUPLOYAN AFFIX HIGH GRAVE
= French suffix -ien
= Pernin suffix Con-
→ 02CB ` modifier letter grave accent

1BC7B ˘ DUPLOYAN AFFIX HIGH LONG GRAVE
= Pernin Contra-

1BC7C ˙ DUPLOYAN AFFIX HIGH DOT
• not Romanian hundreds - use U+0307 ◌̇ combining dot above and U+0308 ◌̈ combining diaeresis
• French number thousands
= French suffix -eur
= Romanian shorthand affix trans-/-lui
→ 02D9 ˙ dot above

1BC7D ° DUPLOYAN AFFIX HIGH CIRCLE
• Not Romanian number grade or percent suffix
• French ordinal number
= French suffix -euse
→ 00B0 ° degree sign
→ 02DA ° ring above

1BC7E ‾ DUPLOYAN AFFIX HIGH LINE
= French suffix -iste
= Romanian shorthand affix -tor
= Pernin affix Dis-
→ 02C9 ‾ modifier letter macron

1BC7F ˇ DUPLOYAN AFFIX HIGH WAVE
= French suffix -ificatif
→ 02DC ˜ small tilde

1BC80 ' DUPLOYAN AFFIX HIGH VERTICAL
• also functions as attached affix vertical up with ZWJ
• this affix is about half as long as Duployan Letter P
• as a prefix, has falling stroke direction
= Pernin ZWJ + -ime
= Sloan Tele-
→ 1BC02 ∣ duployan letter p

Low affixes

1BC81 ˛ DUPLOYAN AFFIX LOW ACUTE
= French suffix -cion
= Pernin prefix ex-
→ 02CF ˏ modifier letter low acute accent

1BC82 ⸰ DUPLOYAN AFFIX LOW TIGHT ACUTE
= Pernin Suf-, Sug-
• as a suffix, placed under and to the right of the following letter

1BC83 ˎ DUPLOYAN AFFIX LOW GRAVE
= French suffix -ion
• French number millions
→ 02CE ˎ modifier letter low grave accent

1BC84 ˍ DUPLOYAN AFFIX LOW LONG GRAVE
= Pernin Extra-

1BC85 . DUPLOYAN AFFIX LOW DOT
= French suffix -ie
• French iterative number
= Romanian shorthand affix Inter-
• not Romanian millions - see U+0323 ◌̣ combining dot below and U+0324 ◌̤ combining diaeresis below

1BC86 ₒ DUPLOYAN AFFIX LOW CIRCLE
= French suffix -iere
• French percent
→ 02F3 ˳ modifier letter low ring

1BC87 _ DUPLOYAN AFFIX LOW LINE
= French suffix -isme
= Pernin affix Mis-
→ 02D7 ˗ modifier letter minus sign

1BC88 ˷ DUPLOYAN AFFIX LOW WAVE
= French suffix -ification
→ 02F7 ˷ modifier letter low tilde

1BC89   ˌ   DUPLOYAN AFFIX LOW VERTICAL
- functions as attached affix vertical down with ZWJ
- this affix is about half as long as Duployan the letter P
- as a prefix, has rising stroke direction
= Pernin ZWJ + -ine
→ 1BC02 ⸀ duployan letter p

1BC8A   ˅   DUPLOYAN AFFIX LOW ARROW
= Romanian prefix Sub-
- low affix

Chinook sign

1BC8B   ⊕   DUPLOYAN SIGN O WITH CROSS
- Chinook Likalisti

Sloan R-form selector

1BC8C   ⌷   DUPLOYAN THICK LETTER SELECTOR
- commonly abbreviated DTLS
- Sloan R-flavored letters
- Shape shown is arbitrary and is not visibly rendered
- Causes previous Duployan character to be rendered bold

Shorthand double mark

1BC8D   ⸲   DUPLOYAN DOUBLE MARK
- Dots show position on and relative orientation to base glyph and are not rendered
- Romanian, Sloan shorthands
- Should be used with M, N, J, and S for the Romanian word signs Mai mult, Nu nu, Ceea ce, and Sa se
- Can be doubled and tripled

Chinook punctuation

1BC8E   ⸗   DUPLOYAN PUNCTUATION CHINOOK FULL STOP

     Date: 2010-09-21   *Printed using UniBook™*
(http://www.unicode.org/unibook/)

	1BCA
0	1BCA0
1	1BCA1
2	1BCA2
3	1BCA3
4	
5	
6	
7	
8	
9	
A	
B	
C	
D	
E	
F	

Shorthand Format Controls

1BCA0   SHORTHAND FORMAT LETTER OVERLAP
     • shape shown is arbitrary and is not visibly
       rendered
1BCA1   SHORTHAND FORMAT CONTINUING OVERLAP
     • shape shown is arbitrary and is not visibly
       rendered
1BCA2   SHORTHAND FORMAT DOWN STEP
     = Romanian shorthand affix -tsion-
     = Sloan contracted ending oo/o + ZWSP
     • shape shown is arbitrary and is not visibly
       rendered
1BCA3   SHORTHAND FORMAT UP STEP
     = Sloan contracted ending uh/au/aui + ZWSP
     • shape shown is arbitrary and is not visibly
       rendered