

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

Doc Type: Working Group Document
Title: Final proposal to encode the Cuneiform script in the SMP of the UCS
Source: Michael Everson, Karljürgen Feuerherm, Steve Tinney
Status: Individual Contribution
Date: 2004-06-08

A. Administrative

1. Title

Final proposal to encode the Cuneiform script in the SMP of the UCS.

2. Requester's name

Michael Everson, Karljürgen Feuerherm, Steve Tinney

3. Requester type (Member body/Liaison/Individual contribution)

Individual contribution.

4. Submission date

2004-06-08

5. Requester's reference (if applicable)

N2297, N2585, N2664R, N2698

6. Choose one of the following:

6a. This is a complete proposal

Yes.

6b. More information will be provided later

No. Note that a delta between N2698 and this document is attached here.

B. Technical -- General

1. Choose one of the following:

1a. This proposal is for a new script (set of characters)

Yes.

Proposed name of script

Cuneiform and Cuneiform Numbers (two blocks, U+12000-U+123FF and U+12400-U+1247F respectively).

1b. The proposal is for addition of character(s) to an existing block

No.

1b. Name of the existing block

2. Number of characters in proposal

988 (885 + 103).

3. Proposed category (see section II, Character Categories)

Category B.

4a. Proposed Level of Implementation (1, 2 or 3) (see clause 14, ISO/IEC 10646-1: 2000)

Level 1.

4b. Is a rationale provided for the choice?

Yes.

4c. If YES, reference

Characters are ordinary spacing characters.

5a. Is a repertoire including character names provided?

Yes.

5b. If YES, are the names in accordance with the character naming guidelines in Annex L of ISO/IEC 10646-1: 2000?

Yes.

5c. Are the character shapes attached in a legible form suitable for review?

Yes.

6a. Who will provide the appropriate computerized font (ordered preference: True Type, or PostScript format) for publishing the standard?

Steve Tinney and Michael Everson. TrueType.

6b. If available now, identify source(s) for the font and indicate the tools used:

Steve Tinney and Michael Everson. Fontographer & FontLab.

7a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?

Yes (see below).

7b. Are published examples of use (such as samples from newspapers, magazines, or other sources) of proposed characters attached?

Yes.

8. Does the proposal address other aspects of character data processing (if applicable) such as input, presentation, sorting, searching, indexing, transliteration etc. (if yes please enclose information)?

Yes.

9. Submitters are invited to provide any additional information about Properties of the proposed Character(s) or Script that will assist in correct understanding of and correct linguistic processing of the proposed character(s) or script. Examples of such properties are: Casing information, Numeric information, Currency information, Display behaviour information such as line breaks, widths etc., Combining behaviour, Spacing behaviour, Directional behaviour, Default Collation behaviour, relevance in Mark Up contexts, Compatibility equivalence and other Unicode normalization related information. See the Unicode standard at <http://www.unicode.org> for such information on other scripts. Also see Unicode Character Database <http://www.unicode.org/Public/UNIDATA/UnicodeCharacterDatabase.html> and associated Unicode Technical Reports for information needed for consideration by the Unicode Technical Committee for inclusion in the Unicode Standard.

UUUUU;CUNEIFORM CHAR NAME;L;O;0;L; ; ; ; ;N; ; ; ; ;

They are all "Letter other" category, strong left to right. Their line-breaking properties are much like CJK ideographic characters. Note that the punctuation characters do not have punctuation properties and numbers do not have numeric properties.

C. Technical -- Justification

1. Has this proposal for addition of character(s) been submitted before? If YES, explain.

No.

2a. Has contact been made to members of the user community (for example: National Body, user groups of the script or characters, other experts, etc.)?

Yes.

2b. If YES, with whom?

Deborah Anderson, Lloyd Anderson, Gary Beckman, Miguel Civil, Jerrold Cooper, Patrick Durusau, Karljürgen Feuerherm, Madeleine Fitzgerald, Eckart Frahm, John Halloran, Charles E. Jones, Cale Johnson, David Owen, Simo Parpola, Dean Snyder, Matt Stolper, Steve Tinney, and Petr Vavroušek. This proposal has been aided in part by funds made available to participants by Johns Hopkins University through the Initiative for Cuneiform Encoding, by the National Science Foundation through the Digital Hammurabi Project, by the Society of Biblical Literature, and by the Script Encoding Initiative, University of California Berkeley.

2c. If YES, available relevant documents

N/A

3. Information on the user community for the proposed characters (for example: size, demographics, information technology use, or publishing use) is included?

Scholars.

4a. The context of use for the proposed characters (type of use; common or rare)

Rare.

4b. Reference

See below.

5a. Are the proposed characters in current use by the user community?

Yes.

5b. If YES, where?

In scholarly publications, primarily in the field of Assyriology, but also elsewhere.

6a. After giving due considerations to the principles in Principles and Procedures document (a WG 2 standing document) must the proposed characters be entirely in the BMP?

No.

6b. If YES, is a rationale provided?

6c. If YES, reference

7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?

Yes.

- 8a. Can any of the proposed characters be considered a presentation form of an existing character or character sequence?
No.
- 8b. If YES, is a rationale for its inclusion provided?
- 8c. If YES, reference
- 9a. Can any of the proposed characters be encoded using a composed character sequence of either existing characters or other proposed characters?
No.
- 9b. If YES, is a rationale for its inclusion provided?
- 9c. If YES, reference
- 10a. Can any of the proposed character(s) be considered to be similar (in appearance or function) to an existing character?
No.
- 10b. If YES, is a rationale for its inclusion provided?
- 10c. If YES, reference
- 11a. Does the proposal include use of combining characters and/or use of composite sequences (see clauses 4.12 and 4.14 in ISO/IEC 10646-1: 2000)?
No.
- 11b. If YES, is a rationale for such use provided?
- 11c. If YES, reference
- 12a. Is a list of composite sequences and their corresponding glyph images (graphic symbols) provided?
No.
- 12b. If YES, reference
- 13a. Does the proposal contain characters with any special properties such as control function or similar semantics?
No.
- 13b. If YES, describe in detail (include attachment if necessary)
- 14a. Does the proposal contain any Ideographic compatibility character(s)?
No.
- 14b. If YES, is the equivalent corresponding unified ideographic character(s) identified?
- 14c. If YES, reference

D. Proposal

1 Introduction and early history

The earliest stage of Mesopotamian Cuneiform, as a complete system of writing, is first attested in Uruk during the so-called Uruk IV period (ca. 3500–3200 BCE) with an initial repertoire of about 700 characters or “signs” as cuneiform scholars customarily call them.

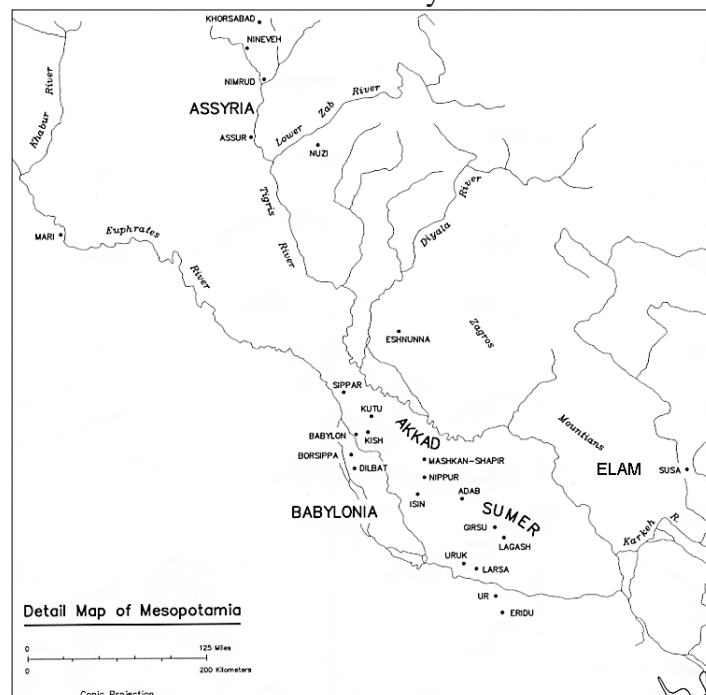





























Figure 1: Map of Mesopotamia

Writing emerged in Sumer simultaneously with a sudden growth in urbanization and an attendant increase in the scope and scale of administrative needs. A large proportion of the elements of the early writing system repertoire was devised to represent quantities and commodities for bureaucratic purposes.

At this earliest stage, signs were mainly pictographic, in that a relatively faithful facsimile of the thing signified was traced, though some items were strictly ideographic in that they were represented by completely arbitrary abstractions, such as the symbol for sheep: ⊕. Some scholars believe that the abstract symbols were derived from an earlier “token” system of accounting, but there is no general agreement on this point.

Where the pictographs are concerned, interpretation was relatively straightforward. The head of a bull was used to denote ‘cattle’; an ear of barley was used to denote ‘barley’. In some cases, pictographs were also interpreted logographically; meaning was derived from the symbol by close conceptual association. For example, the representation of a bowl might mean ‘bowl’, but it could just as well indicate concepts associated with bowls, such as ‘food’. Renditions of a leg might variously suggest ‘leg’, ‘stand’, or ‘walk’. By the next chronological period of south Mesopotamian history (the Uruk III period, 3200–2900 BCE), logographic usage seems to have become much more widespread. In addition, individual signs were combined into more complex designs to express other concepts: for example, a head with a bowl next to it was used to denote ‘eat’ or ‘drink’. This is the point during script development at which one can truly speak of the first Sumerian texts. In due course, the early graphs underwent change, conditioned by several factors: the most widely available writing medium, the most widely available writing tools, and the need to record information more quickly and more efficiently from the standpoint of the bureaucracy for whose use the system was invented in the first place.

The obvious writing medium in Sumer was clay, since it was widely available and easily moulded into suitable shapes (cushion or pillow-shaped ‘tablets’), and writing utensils were easily made for it by sharpening pieces of reed. Since inscribing curvilinear lines in a piece of clay with a sharpened reed (called a “stylus”) was awkward and slow, the tendency on the part of scribes was to approximate the pictographs by means of short, wedge-shaped impressions made with the edge of the stylus. It is these short, mainly straight shapes which have given rise to the modern word “cuneiform” (from the Latin *cuneus*, meaning ‘wedge’). Cuneiform proper was common from about 2700 BCE (see Figure 2) though it should be noted that the term “cuneiform” is understood by experts in the script to include the earlier forms as well.

PICTOGRAPHIC SIGN c. 3100 BC									
INTERPRETATION	star	?sun over horizon	?stream	ear of barley	bull's head	bowl	head + bowl	lower leg	?shrouded body
CUNEIFORM SIGN c. 2400 BC									
CUNEIFORM SIGN c. 700 BC (turned through 90°)									
PHONETIC VALUE*	dingir, an	u ₄ , ud	a	še	gu ₄	nig ₂ , ninda	ku ₂	du, gin, gub	lu ₂
MEANING	god, sky	day, sun	water, secd, son	barley	ox	food, bread	to eat	to walk, to stand	man

* Some signs have more than one phonetic value and some sounds are represented by more than one sign. U₄ means the fourth sign with the phonetic value u.

Figure 2: Evolution of Cuneiform from early pictographs

Naturally, as there is an infinite number of ways to approximate a curve by means of short line segments, there were many different approximations to the original round shapes. This is particularly evident in the early script, but even in the latest periods of use of Cuneiform, one can almost never think of a single “canonical” form of any given sign. At best, one can speak of prominent patterns in a given place at a given time.

As can be seen in Figure 2, the orientation of signs shifted at some point in time, mainly due to the evolution of tablet shapes and the manner in which they were held by the scribes. It is difficult to specify this time exactly, but most scholars are inclined to believe that it took place during the so-called Early Dynastic Period (2900–2335 BCE).

It should be noted that the discussion given here has concentrated on the local Mesopotamian contribution to the development of the system. It is of course true that late fourth millennium ideographic tablets were found in other places than Uruk, notably at Susa and several other west Iranian sites, at Nineveh and Tell Brak in Assyria, and even at Habuba Kabira in Syria. The writing system developed in Sumer was repeatedly exported to peripheral regions in the third, second and first millennia BCE. Though local variations in usage are attested, it is valid to discuss script evolution in terms of the core Sumero-Akkadian writing system.

1.1 Overview of the spread of Cuneiform usage

The Sumerians did not live in complete isolation, and from a very early period there is evidence for the presence of another significant linguistic group in the area immediately north of Sumer known as Agade or Akkad (see Figure 1). Those peoples spoke a Semitic language all of whose dialects are subsumed by scholars under the heading “Akkadian”. In the long run, it was the Akkadian speakers who became the primary users and promulgators of Cuneiform script. Because of their trade involvement with their neighbours, Cuneiform spread through Babylonia (the umbrella term for “Sumer and Akkad”) to Elam, Assyria, eastern Syria, southern Anatolia, and even Egypt. Ultimately, many languages came to be written in Cuneiform script, the most notable being:

- Sumerian
- Akkadian (including Babylonian, Assyrian, Eblaite)
- Elamite
- Hittite
- Hurrian

For the practical purposes of encoding, it is helpful to define time-space categories of script usage according to geography and primary linguistic representation as shown in Figure 3 below.

2 Legacy encodings and the the use of this encoding

Unlike many other scripts, there is for all intents and purposes no “standard” legacy encoding of Cuneiform to take into account. There are a few reasons for this: primarily the fact that the encoding of 600+ items was not possible in the pre-Unicode world of 8-bit fonts, other than by overloading codepoints which could only be differentiated on a mark-up level (such as font-switching); and such mark-up was never implemented in any consistent fashion leading to an accepted standard.

In addition, much of the scholarly work takes place on the level of deciphering and redrafting signs found in autographs (in other words, in engaging in hand-writing analysis). Cuneiform signs are almost all multivalent, and the transmission of document content is in general most useful only when sign identification is packaged alongside sign interpretation. Since the “solution” offered by “font

Archaic Period (to 2901)		
Early Dynastic (2900–2335)		
Old Akkadian (2334–2154)		
Ur III (or NeoSumerian; 2112–2095)		Elamite (2100–360)
Old Assyrian (1900–1750)	Old Babylonian (2004–1595)	
Middle Assyrian (1500-1000)	Middle Babylonian (1595–627)	
Neo-Assyrian (1000-609)		
	Neo-Babylonian (626–539)	
Hittite (1570-1220)		

Figure 3: Cuneiform script usage

mark-up encodings” was not able to accommodate this need, pre-Unicode encodings of Cuneiform found little support in the user community and consequently never emerged as any kind of standard. There do exist some fonts which had a measure of commercial success (such as it was); Michael Everson supplied an analysis of one of these in N2297.

3 General principles of encoding

The following represents a résumé of the principles which have found consensus since the beginning of the encoding venture, and which have been or are expected to be applied to the provisional character list. It may be helpful to note here that Cuneiform “signs” and Cuneiform “characters” do not correspond in one-to-one relationship. It is clear that many signs could be treated as “molecular” rather than “atomic” in nature, though it is not yet altogether clear, in certain cases, which treatment should be applied. It was recognized that these principles are general rather than absolute, and that following their general application, signs/characters must be reviewed on a case by case basis.

3.1 Chronology

It was agreed that in the interests of breaking up the task into manageable chunks, encoding will be done by stages, and that the first stage encoding will *not* include Archaic Cuneiform, but will take into account factors arising from the earliest stages of cuneiform to the extent that these are already known and understood; that is, no special effort has been made to go farther back than Ur III. It is felt that this will afford the necessary practical expediency while minimizing the risk of having to deprecate first stage characters at a later date. Thus, the task of encoding the complete Cuneiform repertoire is likely to unfold as follows:

- Stage One: Ur III through late periods, and including all major contemporaneous script users;
- Stage Two: Old Akkadian and Early Dynastic and any remaining minor script users;
- Stage Three: Archaic Cuneiform.

Archaic may require an entire separate block.

3.2 Base character inventory

The base character inventory has been distilled from the list of Ur III signs compiled by the Cuneiform Digital Library Initiative (UCLA) in union with the list constructed independently by Miguel Civil. The resultant base list is intended to be comprehensive from Ur III onwards including the most recently published results of an ongoing major scholarly reappraisal of the earlier Fara script (see Manfred Krebernik, *Orbis Biblicus et Orientalis* vol. 160/1). It is felt that comprehensiveness at the level of Old Akkadian and earlier periods is not appropriate given the current state of palaeographic research.

3.3 Mergers and splits

Mergers and splits have been discussed and the decision was made that such occurrences must be encoded at the point of maximum differentiation, even when this results in the duplication of glyphs as represented in fonts appropriate for some periods.

3.4 Complex and compound signs

For the sake of ensuring ease of communication, the terms “complex” and “compound” in relation to Cuneiform signs have been defined as follows:

Complex signs: signs made up of a primary sign with one or more secondary signs written within it or otherwise conjoined to it, such that the whole is generally treated by scholars as a unit; this includes linear sequences of two or more signs or wedge-clusters where one or more of said clusters have not been clearly identified as characters in their own right.

Compound signs: linear sequences of two or more signs or wedge-clusters generally treated by scholars as a single unit, when each and every such wedge-cluster exists as a clearly identified character in its own right.

In light of these definitions, the following principles have been ratified:

- Complex signs, which present a relative visual unity, are assigned single individual code points irrespective of their components.
- Compound signs are encoded as sequences of their component characters.

In general, signs which shift from compound to complex or vice versa have been treated according to their Ur III manifestation.

3.5 Glyph variants acquiring independent semantic status

Glyph variants such as TA*, a Middle Assyrian form of the sign TA which in Neo-Assyrian usage has its own logographic interpretation, have been assigned their own code positions, to be used only when the new interpretation applies.

3.6 Punctuation marks. The small number of signs occasionally used in cuneiform to indicate word division, repetition or phrase separation have been assigned code positions.

3.7 Special case: Numerals

In general, numerals have been encoded separately from signs which are visually identical but semantically different (e.g. ONE BAN2, TWO BAN2, etc. vs. MASH, PA, etc.). The distinction between

curved numerals and their cuneiform descendants is treated as glyphic for the purposes of the present proposal; this issue will need to be revisited in subsequent encoding phases.

3.8 Mark-up/formatting. Case ruling and the like is considered formatting and is not to be treated as punctuation and hence is irrelevant to the encoding.








3.9 Character order

Various alternatives have been suggested including using the traditional numbering, which itself derives from a formal ordering by first millennium character shapes; devising an ordering based on form which is better matched to the third millennium glyphs which appear in the character tables; or simply ordering the characters alphabetically according to their transliteration. A variant of the latter alternative has been chosen in this document: it is alphabetical by primary sign name with complex signs based on the primary sign organized according to graphic principles; in some cases, these correspond to the native analyses.

Changes in Cuneiform Proposal Between N2698 and this Document
















Additions

Corrections submitted by Lloyd Anderson and John Halloran, unification of N2698 against Rykle Borger, *Mesopotamisches Zeichenlexikon* (Münster, 2003) and the ongoing work on the PSD registry of words and writings and the CDLI signlist have produced the following necessary additions:

	CUNEIFORM SIGN BAG3	only sign using 1203C
	CUNEIFORM SIGN DUH	splits from GABA (120EF) in NA
	CUNEIFORM SIGN GA2 TIMES LA	previously omitted
	CUNEIFORM SIGN GUL	previously omitted
	CUNEIFORM SIGN IGI GUNU	previously omitted
	CUNEIFORM SIGN KASKAL LAGAB TIMES U OVER LAGAB TIMES U	previously omitted
	CUNEIFORM SIGN KASKAL LAGAB TIMES U OVER KASKAL LAGAB TIMES U	previously omitted
	CUNEIFORM SIGN LAGAB TIMES U	previously omitted
	CUNEIFORM SIGN MUSH OVER MUSH	previously omitted
	CUNEIFORM SIGN MUSH OVER MUSH TIMES A PLUS NA	previously omitted
	CUNEIFORM SIGN NAGA INVERTED	component does occur independently
	CUNEIFORM SIGN SHIR TENU	used in multiple sequences
	CUNEIFORM SIGN SHIM TIMES KUSHU2	previously omitted
	CUNEIFORM SIGN SUR9	previously omitted
	CUNEIFORM SIGN UMBIN	original sign is not a sequence
	CUNEIFORM SIGN UR2 TIMES AL	previously omitted
	CUNEIFORM SIGN UR2 TIMES A PLUS NA	previously omitted

Removals

Removals have been made for several reasons, generally as detailed below. In the case of signs previously listed as LAL2 TIMES xxx, neither unification with Borger, *Mesopotamisches Zeichenlexikon* nor collation of ancient lexical lists favors their implementation as container signs. As in the case of signs composed with LAL, signs composed with LAL2 are to be treated as sequences.

	1203C	CUNEIFORM SIGN ASH KABATENU CROSSING ASH KABATENU	only in BAG3, see above
	12052	CUNEIFORM SIGN BU GUNU	only in one Fara sequence
	1208D	CUNEIFORM SIGN E OVER E	only in E OVER E NUN OVER NUN(1208E)
	12114	CUNEIFORM SIGN GISH TUG2 PI SHIR TENU SILA3	
	12131	CUNEIFORM SIGN HI TIMES ASH2 GUNU	hapax for AMASH; scribal error?
	12161	CUNEIFORM SIGN KA TIMES DUB2	doublet of KA TIMES BALAG
	121F5	CUNEIFORM SIGN LAL2 TIMES DU	
	121F6	CUNEIFORM SIGN LAL2 TIMES HAL	
	121F7	CUNEIFORM SIGN LAL2 TIMES KAK	
	121F8	CUNEIFORM SIGN LAL2 TIMES NI	
	121F9	CUNEIFORM SIGN LAL2 TIMES SAR	
	121FA	CUNEIFORM SIGN LAL2 TIMES GISHGAL	
	12281	CUNEIFORM SIGN PAP IGI GUNU	treat as sequence
	12297	CUNEIFORM SIGN RU TIMES KUR	only in early ligature of SU.RU.KUR
	1234C	CUNEIFORM SIGN URU TIMES TU PLUS TU	text URUxTU.URUxTU (MZL p.59 sub 72)

Name and Glyph Changes

		12031	CUNEIFORM SIGN AN OPPOSING AN	CUNEIFORM SIGN AN PLUS NAGA OPPOSING AN PLUS NAGA
		12029	CUNEIFORM SIGN AL CROSSING AL	CUNEIFORM SIGN AL TIMES AL
		120A9	CUNEIFORM SIGN EZEN TIMES DUN3	CUNEIFORM SIGN EZEN TIMES DUN3 GUNU
		120AA	CUNEIFORM SIGN EZEN TIMES DUN3 GUNU SHESHIG	CUNEIFORM SIGN EZEN TIMES DUN3 GUNU GUNU
		1225A	CUNEIFORM SIGN NINDA2 TIMES ME PLUS GAN2	CUNEIFORM SIGN NINDA2 TIMES ME PLUS GAN2 TENU

Name Changes

	121A5	CUNEIFORM SIGN KIB	CUNEIFORM SIGN GISH CROSSING GISH
	12173	CUNEIFORM SIGN KA TIMES KIB	CUNEIFORM SIGN KA TIMES GISH CROSSING GISH
	121B0	CUNEIFORM SIGN KU4 VARIANT	CUNEIFORM SIGN KU4 VARIANT FORM
	121F4	CUNEIFORM SIGN LAL2	CUNEIFORM SIGN LAL TIMES LAL
	120A6	CUNEIFORM SIGN EZEN TIMES A PLUS LAL2	CUNEIFORM SIGN EZEN TIMES A PLUS LAL TIMES LAL
	120B2	CUNEIFORM SIGN EZEN TIMES LAL2	CUNEIFORM SIGN EZEN TIMES LAL TIMES LAL
	123D3	CUNEIFORM NUMERIC SIGN FOUR BAN2 VARIANT	CUNEIFORM NUMERIC SIGN FOUR BAN2 VARIANT FORM
	123D5	CUNEIFORM NUMERIC SIGN FIVE BAN2 VARIANT	CUNEIFORM NUMERIC SIGN FIVE BAN2 VARIANT FORM

Glyph Changes

		12021	CUNEIFORM SIGN AL
		12022	CUNEIFORM SIGN AL TIMES DIM2
		12023	CUNEIFORM SIGN AL TIMES GISH
		12024	CUNEIFORM SIGN AL TIMES HA
		12025	CUNEIFORM SIGN AL TIMES KAD3
		12026	CUNEIFORM SIGN AL TIMES KI
		12027	CUNEIFORM SIGN AL TIMES SHE
		12028	CUNEIFORM SIGN AL TIMES USH
		12059	CUNEIFORM SIGN DAG KISIM5 TIMES A PLUS MASH
		1205E	CUNEIFORM SIGN DAG KISIM5 TIMES GA PLUS MASH
		120C2	CUNEIFORM SIGN GA2 TIMES BAR PLUS RA
		1215F	CUNEIFORM SIGN KA TIMES BAR
		121BF	CUNEIFORM SIGN LAGAB TIMES AL
		12205	CUNEIFORM SIGN LU2 TIMES AL
		12268	CUNEIFORM SIGN NUN LAGAR TIMES MASH
		122AA	CUNEIFORM SIGN SAG OVER SAG
		1233A	CUNEIFORM SIGN URU TIMES BAR
		1238E	CUNEIFORM NUMERIC SIGN NINE DISH

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Row 120: CUNEIFORM

	1200	1201	1202	1203	1204	1205	1206	1207
0								
1								
2								
3								
4								
5								
6								
7								
8								
9								
A								
B								
C								
D								
E								
F								

G = 00
P = 01

Row 120: CUNEIFORM

hex	Name
12000	CUNEIFORM SIGN A
12001	CUNEIFORM SIGN A TIMES A
12002	CUNEIFORM SIGN A TIMES BAD
12003	CUNEIFORM SIGN A TIMES GAN2 TENU
12004	CUNEIFORM SIGN A TIMES HA
12005	CUNEIFORM SIGN A TIMES IGI
12006	CUNEIFORM SIGN A TIMES LAGAR GUNU
12007	CUNEIFORM SIGN A TIMES MUSH
12008	CUNEIFORM SIGN A TIMES SAG
12009	CUNEIFORM SIGN A2
1200A	CUNEIFORM SIGN AB
1200B	CUNEIFORM SIGN AB TIMES ASH2
1200C	CUNEIFORM SIGN AB TIMES DUN3 GUNU
1200D	CUNEIFORM SIGN AB TIMES GAL
1200E	CUNEIFORM SIGN AB TIMES GAN2 TENU
1200F	CUNEIFORM SIGN AB TIMES HA
12010	CUNEIFORM SIGN AB TIMES IGI GUNU
12011	CUNEIFORM SIGN AB TIMES IMIN
12012	CUNEIFORM SIGN AB TIMES LAGAB
12013	CUNEIFORM SIGN AB TIMES SHESH
12014	CUNEIFORM SIGN AB TIMES U PLUS U PLUS U
12015	CUNEIFORM SIGN AB GUNU
12016	CUNEIFORM SIGN AB2
12017	CUNEIFORM SIGN AB2 TIMES BALAG
12018	CUNEIFORM SIGN AB2 TIMES GAN2 TENU
12019	CUNEIFORM SIGN AB2 TIMES ME PLUS EN
1201A	CUNEIFORM SIGN AB2 TIMES SHA3
1201B	CUNEIFORM SIGN AB2 TIMES TAK4
1201C	CUNEIFORM SIGN AD
1201D	CUNEIFORM SIGN AK
1201E	CUNEIFORM SIGN AK TIMES ERIN2
1201F	CUNEIFORM SIGN AK TIMES SAL PLUS GISH
12020	CUNEIFORM SIGN AK TIMES SHITA PLUS GISH
12021	CUNEIFORM SIGN AL
12022	CUNEIFORM SIGN AL TIMES AL
12023	CUNEIFORM SIGN AL TIMES DIM2
12024	CUNEIFORM SIGN AL TIMES GISH
12025	CUNEIFORM SIGN AL TIMES HA
12026	CUNEIFORM SIGN AL TIMES KAD3
12027	CUNEIFORM SIGN AL TIMES KI
12028	CUNEIFORM SIGN AL TIMES SHE
12029	CUNEIFORM SIGN AL TIMES USH
1202A	CUNEIFORM SIGN ALAN
1202B	CUNEIFORM SIGN ALEPH
1202C	CUNEIFORM SIGN AMAR
1202D	CUNEIFORM SIGN AMAR TIMES SHE
1202E	CUNEIFORM SIGN AN
1202F	CUNEIFORM SIGN AN OVER AN
12030	CUNEIFORM SIGN AN THREE TIMES
12031	CUNEIFORM SIGN AN PLUS NAGA OPPOSING AN PLUS NAGA
12032	CUNEIFORM SIGN AN PLUS NAGA SQUARED
12033	CUNEIFORM SIGN ANSHE
12034	CUNEIFORM SIGN APIN
12035	CUNEIFORM SIGN ARAD
12036	CUNEIFORM SIGN ARAD TIMES KUR
12037	CUNEIFORM SIGN ARKAB
12038	CUNEIFORM SIGN ASAL2
12039	CUNEIFORM SIGN ASH
1203A	CUNEIFORM SIGN ASH ZIDA TENU
1203B	CUNEIFORM SIGN ASH KABA TENU
1203C	CUNEIFORM SIGN ASH OVER ASH TUG2 OVER TUG2 TUG2 OVER TUG2 PAP
1203D	CUNEIFORM SIGN ASH OVER ASH OVER ASH
1203E	CUNEIFORM SIGN ASH OVER ASH OVER ASH CROSSING ASH OVER ASH OVER ASH
1203F	CUNEIFORM SIGN ASH2
12040	CUNEIFORM SIGN ASHGAB
12041	CUNEIFORM SIGN BA
12042	CUNEIFORM SIGN BAD
12043	CUNEIFORM SIGN BAG3
12044	CUNEIFORM SIGN BAHAR2
12045	CUNEIFORM SIGN BAL
12046	CUNEIFORM SIGN BAL OVER BAL
12047	CUNEIFORM SIGN BALAG
12048	CUNEIFORM SIGN BAR
12049	CUNEIFORM SIGN BARA2
1204A	CUNEIFORM SIGN BI
1204B	CUNEIFORM SIGN BI TIMES A
1204C	CUNEIFORM SIGN BI TIMES GAR
1204D	CUNEIFORM SIGN BI TIMES IGI GUNU
1204E	CUNEIFORM SIGN BU
1204F	CUNEIFORM SIGN BU OVER BU AB
12050	CUNEIFORM SIGN BU OVER BU UN
12051	CUNEIFORM SIGN BU CROSSING BU
12052	CUNEIFORM SIGN BULUG
12053	CUNEIFORM SIGN BULUG OVER BULUG
12054	CUNEIFORM SIGN BUR
12055	CUNEIFORM SIGN BUR2

hex	Name
12056	CUNEIFORM SIGN DA
12057	CUNEIFORM SIGN DAG
12058	CUNEIFORM SIGN DAG KISIM5 TIMES A PLUS MASH
12059	CUNEIFORM SIGN DAG KISIM5 TIMES AMAR
1205A	CUNEIFORM SIGN DAG KISIM5 TIMES BALAG
1205B	CUNEIFORM SIGN DAG KISIM5 TIMES BI
1205C	CUNEIFORM SIGN DAG KISIM5 TIMES GA
1205D	CUNEIFORM SIGN DAG KISIM5 TIMES GA PLUS MASH
1205E	CUNEIFORM SIGN DAG KISIM5 TIMES GI
1205F	CUNEIFORM SIGN DAG KISIM5 TIMES GIR2
12060	CUNEIFORM SIGN DAG KISIM5 TIMES GUD
12061	CUNEIFORM SIGN DAG KISIM5 TIMES HA
12062	CUNEIFORM SIGN DAG KISIM5 TIMES IR
12063	CUNEIFORM SIGN DAG KISIM5 TIMES IR PLUS LU
12064	CUNEIFORM SIGN DAG KISIM5 TIMES KAK
12065	CUNEIFORM SIGN DAG KISIM5 TIMES LA
12066	CUNEIFORM SIGN DAG KISIM5 TIMES LU
12067	CUNEIFORM SIGN DAG KISIM5 TIMES LU PLUS MASH2
12068	CUNEIFORM SIGN DAG KISIM5 TIMES LUM
12069	CUNEIFORM SIGN DAG KISIM5 TIMES NE
1206A	CUNEIFORM SIGN DAG KISIM5 TIMES PAP PLUS PAP
1206B	CUNEIFORM SIGN DAG KISIM5 TIMES SI
1206C	CUNEIFORM SIGN DAG KISIM5 TIMES TAK4
1206D	CUNEIFORM SIGN DAG KISIM5 TIMES U2 PLUS GIR2
1206E	CUNEIFORM SIGN DAG KISIM5 TIMES USH
1206F	CUNEIFORM SIGN DAM
12070	CUNEIFORM SIGN DAR
12071	CUNEIFORM SIGN DARA3
12072	CUNEIFORM SIGN DARA4
12073	CUNEIFORM SIGN DI
12074	CUNEIFORM SIGN DIB
12075	CUNEIFORM SIGN DIM
12076	CUNEIFORM SIGN DIM TIMES SHE
12077	CUNEIFORM SIGN DIM2
12078	CUNEIFORM SIGN DIN
12079	CUNEIFORM SIGN DIN KASKAL U GUNU DISH
1207A	CUNEIFORM SIGN DISH
1207B	CUNEIFORM SIGN DU
1207C	CUNEIFORM SIGN DU OVER DU
1207D	CUNEIFORM SIGN DU GUNU
1207E	CUNEIFORM SIGN DU SHESHIG
1207F	CUNEIFORM SIGN DUB

Row 120: CUNEIFORM

	1208	1209	120A	120B	120C	120D	120E	120F
0								
1								
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G = 00
P = 01

Row 120: CUNEIFORM

hex	Name
12080	CUNEIFORM SIGN DUB TIMES ESH2
12081	CUNEIFORM SIGN DUB2
12082	CUNEIFORM SIGN DUG
12083	CUNEIFORM SIGN DUGUD
12084	CUNEIFORM SIGN DUH
12085	CUNEIFORM SIGN DUN
12086	CUNEIFORM SIGN DUN3
12087	CUNEIFORM SIGN DUN3 GUNU
12088	CUNEIFORM SIGN DUN3 GUNU GUNU
12089	CUNEIFORM SIGN DUN3 GUNU GUNU SHESHIG
1208A	CUNEIFORM SIGN DUR2
1208B	CUNEIFORM SIGN E
1208C	CUNEIFORM SIGN E TIMES PAP
1208D	CUNEIFORM SIGN E OVER E NUN OVER NUN
1208E	CUNEIFORM SIGN E2
1208F	CUNEIFORM SIGN E2 TIMES A PLUS HA PLUS DA
12090	CUNEIFORM SIGN E2 TIMES GAR
12091	CUNEIFORM SIGN E2 TIMES MI
12092	CUNEIFORM SIGN E2 TIMES SAL
12093	CUNEIFORM SIGN E2 TIMES SHE
12094	CUNEIFORM SIGN E2 TIMES U
12095	CUNEIFORM SIGN EDIN
12096	CUNEIFORM SIGN EGIR
12097	CUNEIFORM SIGN EL
12098	CUNEIFORM SIGN EN
12099	CUNEIFORM SIGN EN TIMES GAN2
1209A	CUNEIFORM SIGN EN TIMES GAN2 TENU
1209B	CUNEIFORM SIGN EN TIMES ME
1209C	CUNEIFORM SIGN EN CROSSING EN
1209D	CUNEIFORM SIGN EN OPPOSING EN
1209E	CUNEIFORM SIGN EN SQUARED
1209F	CUNEIFORM SIGN EREN
120A0	CUNEIFORM SIGN ERIN2
120A1	CUNEIFORM SIGN ESH2
120A2	CUNEIFORM SIGN EZEN
120A3	CUNEIFORM SIGN EZEN TIMES A
120A4	CUNEIFORM SIGN EZEN TIMES A PLUS LAL
120A5	CUNEIFORM SIGN EZEN TIMES A PLUS LAL TIMES LAL
120A6	CUNEIFORM SIGN EZEN TIMES AN
120A7	CUNEIFORM SIGN EZEN TIMES BAD
120A8	CUNEIFORM SIGN EZEN TIMES DUN3 GUNU
120A9	CUNEIFORM SIGN EZEN TIMES DUN3 GUNU GUNU
120AA	CUNEIFORM SIGN EZEN TIMES HA
120AB	CUNEIFORM SIGN EZEN TIMES HA GUNU
120AC	CUNEIFORM SIGN EZEN TIMES IGI GUNU
120AD	CUNEIFORM SIGN EZEN TIMES KASKAL
120AE	CUNEIFORM SIGN EZEN TIMES KASKAL SQUARED
120AF	CUNEIFORM SIGN EZEN TIMES KU3
120B0	CUNEIFORM SIGN EZEN TIMES LA
120B1	CUNEIFORM SIGN EZEN TIMES LAL TIMES LAL
120B2	CUNEIFORM SIGN EZEN TIMES LI
120B3	CUNEIFORM SIGN EZEN TIMES LU
120B4	CUNEIFORM SIGN EZEN TIMES U2
120B5	CUNEIFORM SIGN EZEN TIMES UD
120B6	CUNEIFORM SIGN GA
120B7	CUNEIFORM SIGN GA GUNU
120B8	CUNEIFORM SIGN GA2
120B9	CUNEIFORM SIGN GA2 TIMES A PLUS DA PLUS HA
120BA	CUNEIFORM SIGN GA2 TIMES A PLUS HA
120BB	CUNEIFORM SIGN GA2 TIMES A PLUS IGI
120BC	CUNEIFORM SIGN GA2 TIMES AB2 TENU PLUS TAB
120BD	CUNEIFORM SIGN GA2 TIMES AN
120BE	CUNEIFORM SIGN GA2 TIMES ASH
120BF	CUNEIFORM SIGN GA2 TIMES ASH2 PLUS GAL
120C0	CUNEIFORM SIGN GA2 TIMES BAD
120C1	CUNEIFORM SIGN GA2 TIMES BAR PLUS RA
120C2	CUNEIFORM SIGN GA2 TIMES BUR
120C3	CUNEIFORM SIGN GA2 TIMES BUR PLUS RA
120C4	CUNEIFORM SIGN GA2 TIMES DA
120C5	CUNEIFORM SIGN GA2 TIMES DI
120C6	CUNEIFORM SIGN GA2 TIMES DIM TIMES SHE
120C7	CUNEIFORM SIGN GA2 TIMES DUB
120C8	CUNEIFORM SIGN GA2 TIMES EL
120C9	CUNEIFORM SIGN GA2 TIMES EL PLUS LA
120CA	CUNEIFORM SIGN GA2 TIMES EN
120CB	CUNEIFORM SIGN GA2 TIMES EN TIMES GAN2 TENU
120CC	CUNEIFORM SIGN GA2 TIMES GAN2 TENU
120CD	CUNEIFORM SIGN GA2 TIMES GAR
120CE	CUNEIFORM SIGN GA2 TIMES GI
120CF	CUNEIFORM SIGN GA2 TIMES GI4
120D0	CUNEIFORM SIGN GA2 TIMES GI4 PLUS A
120D1	CUNEIFORM SIGN GA2 TIMES GIR2 PLUS SU
120D2	CUNEIFORM SIGN GA2 TIMES HA PLUS LU PLUS ESH2
120D3	CUNEIFORM SIGN GA2 TIMES HAL
120D4	CUNEIFORM SIGN GA2 TIMES HAL PLUS LA
120D5	CUNEIFORM SIGN GA2 TIMES HI PLUS LI
120D6	CUNEIFORM SIGN GA2 TIMES HUB2
120D7	CUNEIFORM SIGN GA2 TIMES IGI GUNU
120D8	CUNEIFORM SIGN GA2 TIMES ISH PLUS HU PLUS ASH

hex	Name
120D9	CUNEIFORM SIGN GA2 TIMES KAK
120DA	CUNEIFORM SIGN GA2 TIMES KASKAL
120DB	CUNEIFORM SIGN GA2 TIMES KID
120DC	CUNEIFORM SIGN GA2 TIMES KID PLUS LAL
120DD	CUNEIFORM SIGN GA2 TIMES KU3 PLUS AN
120DE	CUNEIFORM SIGN GA2 TIMES LA
120DF	CUNEIFORM SIGN GA2 TIMES ME PLUS EN
120E0	CUNEIFORM SIGN GA2 TIMES MI
120E1	CUNEIFORM SIGN GA2 TIMES NUN
120E2	CUNEIFORM SIGN GA2 TIMES NUN OVER NUN
120E3	CUNEIFORM SIGN GA2 TIMES PA
120E4	CUNEIFORM SIGN GA2 TIMES SAL
120E5	CUNEIFORM SIGN GA2 TIMES SAR
120E6	CUNEIFORM SIGN GA2 TIMES SHE
120E7	CUNEIFORM SIGN GA2 TIMES SHE PLUS TUR
120E8	CUNEIFORM SIGN GA2 TIMES SHID
120E9	CUNEIFORM SIGN GA2 TIMES SUM
120EA	CUNEIFORM SIGN GA2 TIMES TAK4
120EB	CUNEIFORM SIGN GA2 TIMES U
120EC	CUNEIFORM SIGN GA2 TIMES UD
120ED	CUNEIFORM SIGN GA2 TIMES UD PLUS DU
120EE	CUNEIFORM SIGN GA2 OVER GA2
120EF	CUNEIFORM SIGN GABA
120F0	CUNEIFORM SIGN GABA CROSSING GABA
120F1	CUNEIFORM SIGN GAD
120F2	CUNEIFORM SIGN GAD OVER GAD GAR OVER GAR
120F3	CUNEIFORM SIGN GAL
120F4	CUNEIFORM SIGN GAL GAD OVER GAD GAR OVER GAR
120F5	CUNEIFORM SIGN GALAM
120F6	CUNEIFORM SIGN GAM
120F7	CUNEIFORM SIGN GAN
120F8	CUNEIFORM SIGN GAN2
120F9	CUNEIFORM SIGN GAN2 TENU
120FA	CUNEIFORM SIGN GAN2 OVER GAN2
120FB	CUNEIFORM SIGN GAN2 CROSSING GAN2
120FC	CUNEIFORM SIGN GAR
120FD	CUNEIFORM SIGN GAR3
120FE	CUNEIFORM SIGN GASHAN
120FF	CUNEIFORM SIGN GESHTIN

Row 121: CUNEIFORM

	1210	1211	1212	1213	1214	1215	1216	1217
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G = 00
P = 01

Row 121: CUNEIFORM

hex	Name
12100	CUNEIFORM SIGN GESHTIN TIMES KUR
12101	CUNEIFORM SIGN GI
12102	CUNEIFORM SIGN GI TIMES E
12103	CUNEIFORM SIGN GI TIMES U
12104	CUNEIFORM SIGN GI CROSSING GI
12105	CUNEIFORM SIGN GI4
12106	CUNEIFORM SIGN GI4 OVER GI4
12107	CUNEIFORM SIGN GI4 CROSSING GI4
12108	CUNEIFORM SIGN GIDIM
12109	CUNEIFORM SIGN GIG
1210A	CUNEIFORM SIGN GIR2
1210B	CUNEIFORM SIGN GIR2 GUNU
1210C	CUNEIFORM SIGN GIR3
1210D	CUNEIFORM SIGN GIR3 TIMES A PLUS IGI
1210E	CUNEIFORM SIGN GIR3 TIMES GAN2 TENU
1210F	CUNEIFORM SIGN GIR3 TIMES IGI
12110	CUNEIFORM SIGN GIR3 TIMES LU PLUS IGI
12111	CUNEIFORM SIGN GIR3 TIMES PA
12112	CUNEIFORM SIGN GISAL
12113	CUNEIFORM SIGN GISH
12114	CUNEIFORM SIGN GISH CROSSING GISH
12115	CUNEIFORM SIGN GISH TIMES BAD
12116	CUNEIFORM SIGN GISH TIMES TAK4
12117	CUNEIFORM SIGN GISH TENU
12118	CUNEIFORM SIGN GU
12119	CUNEIFORM SIGN GU CROSSING GU
1211A	CUNEIFORM SIGN GU2
1211B	CUNEIFORM SIGN GU2 TIMES KAK
1211C	CUNEIFORM SIGN GU2 TIMES KAK TIMES IGI GUNU
1211D	CUNEIFORM SIGN GU2 TIMES NUN
1211E	CUNEIFORM SIGN GU2 TIMES SAL PLUS TUG2
1211F	CUNEIFORM SIGN GU2 GUNU
12120	CUNEIFORM SIGN GUD
12121	CUNEIFORM SIGN GUD TIMES A PLUS KUR
12122	CUNEIFORM SIGN GUD TIMES KUR
12123	CUNEIFORM SIGN GUD OVER GUD LUGAL
12124	CUNEIFORM SIGN GUL
12125	CUNEIFORM SIGN GUM
12126	CUNEIFORM SIGN GUM TIMES SHE
12127	CUNEIFORM SIGN GUR
12128	CUNEIFORM SIGN GUR7
12129	CUNEIFORM SIGN GURUN
1212A	CUNEIFORM SIGN GURUSH
1212B	CUNEIFORM SIGN HA
1212C	CUNEIFORM SIGN HA TENU
1212D	CUNEIFORM SIGN HA GUNU
1212E	CUNEIFORM SIGN HAL
1212F	CUNEIFORM SIGN HI
12130	CUNEIFORM SIGN HI TIMES ASH
12131	CUNEIFORM SIGN HI TIMES ASH2
12132	CUNEIFORM SIGN HI TIMES BAD
12133	CUNEIFORM SIGN HI TIMES DISH
12134	CUNEIFORM SIGN HI TIMES GAD
12135	CUNEIFORM SIGN HI TIMES KIN
12136	CUNEIFORM SIGN HI TIMES NUN
12137	CUNEIFORM SIGN HI TIMES SHE
12138	CUNEIFORM SIGN HI TIMES U
12139	CUNEIFORM SIGN HU
1213A	CUNEIFORM SIGN HUB2
1213B	CUNEIFORM SIGN HUB2 TIMES AN
1213C	CUNEIFORM SIGN HUB2 TIMES HAL
1213D	CUNEIFORM SIGN HUB2 TIMES KASKAL
1213E	CUNEIFORM SIGN HUB2 TIMES LISH
1213F	CUNEIFORM SIGN HUB2 TIMES UD
12140	CUNEIFORM SIGN HUL2
12141	CUNEIFORM SIGN I
12142	CUNEIFORM SIGN I A
12143	CUNEIFORM SIGN IB
12144	CUNEIFORM SIGN IDIM
12145	CUNEIFORM SIGN IDIM OVER IDIM BUR
12146	CUNEIFORM SIGN IDIM OVER IDIM SQUARED
12147	CUNEIFORM SIGN IG
12148	CUNEIFORM SIGN IGI
12149	CUNEIFORM SIGN IGI DIB
1214A	CUNEIFORM SIGN IGI RI
1214B	CUNEIFORM SIGN IGI OVER IGI SHIR OVER SHIR UD OVER UD
1214C	CUNEIFORM SIGN IGI GUNU
1214D	CUNEIFORM SIGN IL
1214E	CUNEIFORM SIGN IL TIMES GAN2 TENU
1214F	CUNEIFORM SIGN IL2
12150	CUNEIFORM SIGN IM
12151	CUNEIFORM SIGN IM TIMES TAK4
12152	CUNEIFORM SIGN IM CROSSING IM
12153	CUNEIFORM SIGN IM OPPOSING IM
12154	CUNEIFORM SIGN IM SQUARED
12155	CUNEIFORM SIGN IMIN
12156	CUNEIFORM SIGN IN
12157	CUNEIFORM SIGN IR

hex	Name
12158	CUNEIFORM SIGN ISH
12159	CUNEIFORM SIGN KA
1215A	CUNEIFORM SIGN KA TIMES A
1215B	CUNEIFORM SIGN KA TIMES AD
1215C	CUNEIFORM SIGN KA TIMES AD PLUS KU3
1215D	CUNEIFORM SIGN KA TIMES ASH2
1215E	CUNEIFORM SIGN KA TIMES BAD
1215F	CUNEIFORM SIGN KA TIMES BALAG
12160	CUNEIFORM SIGN KA TIMES BAR
12161	CUNEIFORM SIGN KA TIMES BI
12162	CUNEIFORM SIGN KA TIMES ERIN2
12163	CUNEIFORM SIGN KA TIMES ESH2
12164	CUNEIFORM SIGN KA TIMES GA
12165	CUNEIFORM SIGN KA TIMES GAL
12166	CUNEIFORM SIGN KA TIMES GAN2 TENU
12167	CUNEIFORM SIGN KA TIMES GAR
12168	CUNEIFORM SIGN KA TIMES GAR PLUS SHA3 PLUS A
12169	CUNEIFORM SIGN KA TIMES GI
1216A	CUNEIFORM SIGN KA TIMES GIG
1216B	CUNEIFORM SIGN KA TIMES GIR2
1216C	CUNEIFORM SIGN KA TIMES GISH PLUS SAR
1216D	CUNEIFORM SIGN KA TIMES GISH CROSSING GISH
1216E	CUNEIFORM SIGN KA TIMES GU
1216F	CUNEIFORM SIGN KA TIMES GUR7
12170	CUNEIFORM SIGN KA TIMES IGI
12171	CUNEIFORM SIGN KA TIMES IM
12172	CUNEIFORM SIGN KA TIMES KAK
12173	CUNEIFORM SIGN KA TIMES KI
12174	CUNEIFORM SIGN KA TIMES KID
12175	CUNEIFORM SIGN KA TIMES LI
12176	CUNEIFORM SIGN KA TIMES LU
12177	CUNEIFORM SIGN KA TIMES ME
12178	CUNEIFORM SIGN KA TIMES ME PLUS DU
12179	CUNEIFORM SIGN KA TIMES ME PLUS GI
1217A	CUNEIFORM SIGN KA TIMES ME PLUS ME
1217B	CUNEIFORM SIGN KA TIMES ME PLUS TE
1217C	CUNEIFORM SIGN KA TIMES MI
1217D	CUNEIFORM SIGN KA TIMES NE
1217E	CUNEIFORM SIGN KA TIMES NUN
1217F	CUNEIFORM SIGN KA TIMES PI

Row 121: CUNEIFORM

	1218	1219	121A	121B	121C	121D	121E	121F
0								
1								
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A								
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C								
D								
E								
F								

G = 00
P = 01

Row 121: CUNEIFORM

hex	Name
12180	CUNEIFORM SIGN KA TIMES RU
12181	CUNEIFORM SIGN KA TIMES SA
12182	CUNEIFORM SIGN KA TIMES SAR
12183	CUNEIFORM SIGN KA TIMES SHA
12184	CUNEIFORM SIGN KA TIMES SHE
12185	CUNEIFORM SIGN KA TIMES SHID
12186	CUNEIFORM SIGN KA TIMES SHU
12187	CUNEIFORM SIGN KA TIMES SIG
12188	CUNEIFORM SIGN KA TIMES SUHUR
12189	CUNEIFORM SIGN KA TIMES TAR
1218A	CUNEIFORM SIGN KA TIMES U
1218B	CUNEIFORM SIGN KA TIMES U2
1218C	CUNEIFORM SIGN KA TIMES UD
1218D	CUNEIFORM SIGN KA TIMES UMUM TIMES PA
1218E	CUNEIFORM SIGN KA TIMES USH
1218F	CUNEIFORM SIGN KA TIMES ZI
12190	CUNEIFORM SIGN KA2
12191	CUNEIFORM SIGN KA2 CROSSING KA2
12192	CUNEIFORM SIGN KAB
12193	CUNEIFORM SIGN KAD2
12194	CUNEIFORM SIGN KAD3
12195	CUNEIFORM SIGN KAD4
12196	CUNEIFORM SIGN KAD5
12197	CUNEIFORM SIGN KAD5 OVER KAD5
12198	CUNEIFORM SIGN KAK
12199	CUNEIFORM SIGN KAK TIMES IGI GUNU
1219A	CUNEIFORM SIGN KAL
1219B	CUNEIFORM SIGN KAL TIMES BAD
1219C	CUNEIFORM SIGN KAL CROSSING KAL
1219D	CUNEIFORM SIGN KAM2
1219E	CUNEIFORM SIGN KAM4
1219F	CUNEIFORM SIGN KASKAL
121A0	CUNEIFORM SIGN KASKAL LAGAB TIMES U OVER LAGAB TIMES U
121A1	CUNEIFORM SIGN KASKAL LAGAB TIMES U OVER KASKAL LAGAB TIMES U
121A2	CUNEIFORM SIGN KESH2
121A3	CUNEIFORM SIGN KI
121A4	CUNEIFORM SIGN KI TIMES BAD
121A5	CUNEIFORM SIGN KI TIMES U
121A6	CUNEIFORM SIGN KI TIMES UD
121A7	CUNEIFORM SIGN KID
121A8	CUNEIFORM SIGN KIN
121A9	CUNEIFORM SIGN KISAL
121AA	CUNEIFORM SIGN KISH
121AB	CUNEIFORM SIGN KISIM5
121AC	CUNEIFORM SIGN KISIM5 OVER KISIM5
121AD	CUNEIFORM SIGN KU
121AE	CUNEIFORM SIGN KU OVER HI TIMES ASH2 KU OVER HI TIMES ASH2
121AF	CUNEIFORM SIGN KU3
121B0	CUNEIFORM SIGN KU4
121B1	CUNEIFORM SIGN KU4 VARIANT FORM
121B2	CUNEIFORM SIGN KU7
121B3	CUNEIFORM SIGN KUL
121B4	CUNEIFORM SIGN KUL GUNU
121B5	CUNEIFORM SIGN KUN
121B6	CUNEIFORM SIGN KUR
121B7	CUNEIFORM SIGN KUR OPPOSING KUR
121B8	CUNEIFORM SIGN KUSHU2
121B9	CUNEIFORM SIGN KWU318
121BA	CUNEIFORM SIGN LA
121BB	CUNEIFORM SIGN LAGAB
121BC	CUNEIFORM SIGN LAGAB TIMES A
121BD	CUNEIFORM SIGN LAGAB TIMES A PLUS DA PLUS HA
121BE	CUNEIFORM SIGN LAGAB TIMES A PLUS GAR
121BF	CUNEIFORM SIGN LAGAB TIMES A PLUS LAL
121C0	CUNEIFORM SIGN LAGAB TIMES AL
121C1	CUNEIFORM SIGN LAGAB TIMES AN
121C2	CUNEIFORM SIGN LAGAB TIMES ASH ZIDA TENU
121C3	CUNEIFORM SIGN LAGAB TIMES BAD
121C4	CUNEIFORM SIGN LAGAB TIMES BI
121C5	CUNEIFORM SIGN LAGAB TIMES DAR
121C6	CUNEIFORM SIGN LAGAB TIMES EN
121C7	CUNEIFORM SIGN LAGAB TIMES GA
121C8	CUNEIFORM SIGN LAGAB TIMES GAR
121C9	CUNEIFORM SIGN LAGAB TIMES GUD
121CA	CUNEIFORM SIGN LAGAB TIMES GUD PLUS GUD
121CB	CUNEIFORM SIGN LAGAB TIMES HA
121CC	CUNEIFORM SIGN LAGAB TIMES HAL
121CD	CUNEIFORM SIGN LAGAB TIMES HI TIMES NUN
121CE	CUNEIFORM SIGN LAGAB TIMES IGI GUNU
121CF	CUNEIFORM SIGN LAGAB TIMES IM
121D0	CUNEIFORM SIGN LAGAB TIMES IM PLUS HA
121D1	CUNEIFORM SIGN LAGAB TIMES IM PLUS LU
121D2	CUNEIFORM SIGN LAGAB TIMES KI
121D3	CUNEIFORM SIGN LAGAB TIMES KIN
121D4	CUNEIFORM SIGN LAGAB TIMES KU3
121D5	CUNEIFORM SIGN LAGAB TIMES KUL

hex	Name
121D6	CUNEIFORM SIGN LAGAB TIMES KUL PLUS HI PLUS A
121D7	CUNEIFORM SIGN LAGAB TIMES LAGAB
121D8	CUNEIFORM SIGN LAGAB TIMES LISH
121D9	CUNEIFORM SIGN LAGAB TIMES LU
121DA	CUNEIFORM SIGN LAGAB TIMES LUL
121DB	CUNEIFORM SIGN LAGAB TIMES ME
121DC	CUNEIFORM SIGN LAGAB TIMES ME PLUS EN
121DD	CUNEIFORM SIGN LAGAB TIMES MUSH
121DE	CUNEIFORM SIGN LAGAB TIMES NE
121DF	CUNEIFORM SIGN LAGAB TIMES SHE PLUS SUM
121E0	CUNEIFORM SIGN LAGAB TIMES SHITA PLUS ERIN2
121E1	CUNEIFORM SIGN LAGAB TIMES SHITA TENU
121E2	CUNEIFORM SIGN LAGAB TIMES SHU2
121E3	CUNEIFORM SIGN LAGAB TIMES SHU2 PLUS SHU2
121E4	CUNEIFORM SIGN LAGAB TIMES SUM
121E5	CUNEIFORM SIGN LAGAB TIMES TAG
121E6	CUNEIFORM SIGN LAGAB TIMES TAK4
121E7	CUNEIFORM SIGN LAGAB TIMES TE PLUS A PLUS SU PLUS NA
121E8	CUNEIFORM SIGN LAGAB TIMES U
121E9	CUNEIFORM SIGN LAGAB TIMES U PLUS A
121EA	CUNEIFORM SIGN LAGAB TIMES U PLUS U PLUS U
121EB	CUNEIFORM SIGN LAGAB TIMES U2 PLUS ASH
121EC	CUNEIFORM SIGN LAGAB TIMES UD
121ED	CUNEIFORM SIGN LAGAB TIMES USH
121EE	CUNEIFORM SIGN LAGAB SQUARED
121EF	CUNEIFORM SIGN LAGAR
121F0	CUNEIFORM SIGN LAGAR TIMES SHE
121F1	CUNEIFORM SIGN LAGAR TIMES SHE PLUS SUM
121F2	CUNEIFORM SIGN LAGAR GUNU
121F3	CUNEIFORM SIGN LAGAR GUNU OVER LAGAR GUNU SHE
121F4	CUNEIFORM SIGN LAHSHU
121F5	CUNEIFORM SIGN LAL
121F6	CUNEIFORM SIGN LAL TIMES LAL
121F7	CUNEIFORM SIGN LAM
121F8	CUNEIFORM SIGN LAM TIMES KUR
121F9	CUNEIFORM SIGN LAM TIMES KUR PLUS RU
121FA	CUNEIFORM SIGN LI
121FB	CUNEIFORM SIGN LIL
121FC	CUNEIFORM SIGN LIMMU2
121FD	CUNEIFORM SIGN LISH
121FE	CUNEIFORM SIGN LU
121FF	CUNEIFORM SIGN LU TIMES BAD

Row 122: CUNEIFORM

	1220	1221	1222	1223	1224	1225	1226	1227
0								
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G = 00
P = 01

Row 122: CUNEIFORM

hex	Name
12200	CUNEIFORM SIGN LU2
12201	CUNEIFORM SIGN LU2 TIMES AL
12202	CUNEIFORM SIGN LU2 TIMES BAD
12203	CUNEIFORM SIGN LU2 TIMES ESH2
12204	CUNEIFORM SIGN LU2 TIMES ESH2 TENU
12205	CUNEIFORM SIGN LU2 TIMES GAN2 TENU
12206	CUNEIFORM SIGN LU2 TIMES HI TIMES BAD
12207	CUNEIFORM SIGN LU2 TIMES IM
12208	CUNEIFORM SIGN LU2 TIMES KAD2
12209	CUNEIFORM SIGN LU2 TIMES KAD3
1220A	CUNEIFORM SIGN LU2 TIMES KAD3 PLUS ASH
1220B	CUNEIFORM SIGN LU2 TIMES KI
1220C	CUNEIFORM SIGN LU2 TIMES LA PLUS ASH
1220D	CUNEIFORM SIGN LU2 TIMES LAGAB
1220E	CUNEIFORM SIGN LU2 TIMES ME PLUS EN
1220F	CUNEIFORM SIGN LU2 TIMES NE
12210	CUNEIFORM SIGN LU2 TIMES NU
12211	CUNEIFORM SIGN LU2 TIMES SI PLUS ASH
12212	CUNEIFORM SIGN LU2 TIMES SIK2 PLUS BU
12213	CUNEIFORM SIGN LU2 TIMES TUG2
12214	CUNEIFORM SIGN LU2 TENU
12215	CUNEIFORM SIGN LU2 CROSSING LU2
12216	CUNEIFORM SIGN LU2 OPPOSING LU2
12217	CUNEIFORM SIGN LU2 SQUARED
12218	CUNEIFORM SIGN LU2 SHESHIG
12219	CUNEIFORM SIGN LU3
1221A	CUNEIFORM SIGN LUGAL
1221B	CUNEIFORM SIGN LUGAL OVER LUGAL
1221C	CUNEIFORM SIGN LUGAL OPPOSING LUGAL
1221D	CUNEIFORM SIGN LUGAL SHESHIG
1221E	CUNEIFORM SIGN LUH
1221F	CUNEIFORM SIGN LUL
12220	CUNEIFORM SIGN LUM
12221	CUNEIFORM SIGN LUM OVER LUM
12222	CUNEIFORM SIGN LUM OVER LUM GAR OVER GAR
12223	CUNEIFORM SIGN MA
12224	CUNEIFORM SIGN MA TIMES TAK4
12225	CUNEIFORM SIGN MA GUNU
12226	CUNEIFORM SIGN MA2
12227	CUNEIFORM SIGN MAH
12228	CUNEIFORM SIGN MAR
12229	CUNEIFORM SIGN MASH
1222A	CUNEIFORM SIGN MASH2
1222B	CUNEIFORM SIGN ME
1222C	CUNEIFORM SIGN MES
1222D	CUNEIFORM SIGN MI
1222E	CUNEIFORM SIGN MIN
1222F	CUNEIFORM SIGN MU
12230	CUNEIFORM SIGN MU OVER MU
12231	CUNEIFORM SIGN MUG
12232	CUNEIFORM SIGN MUNSUB
12233	CUNEIFORM SIGN MURGU2
12234	CUNEIFORM SIGN MUSH
12235	CUNEIFORM SIGN MUSH TIMES A
12236	CUNEIFORM SIGN MUSH TIMES KUR
12237	CUNEIFORM SIGN MUSH TIMES ZA
12238	CUNEIFORM SIGN MUSH OVER MUSH
12239	CUNEIFORM SIGN MUSH OVER MUSH TIMES A PLUS NA
1223A	CUNEIFORM SIGN MUSH CROSSING MUSH
1223B	CUNEIFORM SIGN MUSH3
1223C	CUNEIFORM SIGN MUSH3 TIMES A
1223D	CUNEIFORM SIGN MUSH3 TIMES A PLUS DI
1223E	CUNEIFORM SIGN MUSH3 TIMES DI
1223F	CUNEIFORM SIGN MUSH3 GUNU
12240	CUNEIFORM SIGN NA
12241	CUNEIFORM SIGN NA2
12242	CUNEIFORM SIGN NAGA
12243	CUNEIFORM SIGN NAGA INVERTED
12244	CUNEIFORM SIGN NAGA TIMES SHU TENU
12245	CUNEIFORM SIGN NAGA OPPOSING NAGA
12246	CUNEIFORM SIGN NAGAR
12247	CUNEIFORM SIGN NAM NUTILLU
12248	CUNEIFORM SIGN NAM
12249	CUNEIFORM SIGN NAM2
1224A	CUNEIFORM SIGN NE
1224B	CUNEIFORM SIGN NE TIMES A
1224C	CUNEIFORM SIGN NE TIMES UD
1224D	CUNEIFORM SIGN NE SHESHIG
1224E	CUNEIFORM SIGN NI
1224F	CUNEIFORM SIGN NI TIMES E
12250	CUNEIFORM SIGN NI2
12251	CUNEIFORM SIGN NIM
12252	CUNEIFORM SIGN NIM TIMES GAN2 TENU
12253	CUNEIFORM SIGN NIM TIMES GAR PLUS GAN2 TENU
12254	CUNEIFORM SIGN NINDA2
12255	CUNEIFORM SIGN NINDA2 TIMES AN
12256	CUNEIFORM SIGN NINDA2 TIMES ASH
12257	CUNEIFORM SIGN NINDA2 TIMES ASH PLUS ASH
12258	CUNEIFORM SIGN NINDA2 TIMES GUD

hex	Name
12259	CUNEIFORM SIGN NINDA2 TIMES ME PLUS GAN2 TENU
1225A	CUNEIFORM SIGN NINDA2 TIMES NE
1225B	CUNEIFORM SIGN NINDA2 TIMES NUN
1225C	CUNEIFORM SIGN NINDA2 TIMES SHE
1225D	CUNEIFORM SIGN NINDA2 TIMES SHE PLUS A AN
1225E	CUNEIFORM SIGN NINDA2 TIMES SHE PLUS ASH
1225F	CUNEIFORM SIGN NINDA2 TIMES SHE PLUS ASH PLUS ASH
12260	CUNEIFORM SIGN NINDA2 TIMES U2 PLUS ASH
12261	CUNEIFORM SIGN NINDA2 TIMES USH
12262	CUNEIFORM SIGN NISAG
12263	CUNEIFORM SIGN NU
12264	CUNEIFORM SIGN NU11
12265	CUNEIFORM SIGN NUN
12266	CUNEIFORM SIGN NUN LAGAR TIMES GAR
12267	CUNEIFORM SIGN NUN LAGAR TIMES MASH
12268	CUNEIFORM SIGN NUN LAGAR TIMES SAL
12269	CUNEIFORM SIGN NUN LAGAR TIMES SAL OVER NUN LAGAR TIMES SAL
1226A	CUNEIFORM SIGN NUN LAGAR TIMES USH
1226B	CUNEIFORM SIGN NUN TENU
1226C	CUNEIFORM SIGN NUN OVER NUN
1226D	CUNEIFORM SIGN NUN CROSSING NUN
1226E	CUNEIFORM SIGN NUN CROSSING NUN LAGAR OVER LAGAR
1226F	CUNEIFORM SIGN NUNUZ
12270	CUNEIFORM SIGN NUNUZ AB2 TIMES ASHGAB
12271	CUNEIFORM SIGN NUNUZ AB2 TIMES BI
12272	CUNEIFORM SIGN NUNUZ AB2 TIMES DUG
12273	CUNEIFORM SIGN NUNUZ AB2 TIMES GUD
12274	CUNEIFORM SIGN NUNUZ AB2 TIMES IGI GUNU
12275	CUNEIFORM SIGN NUNUZ AB2 TIMES KAD3
12276	CUNEIFORM SIGN NUNUZ AB2 TIMES LA
12277	CUNEIFORM SIGN NUNUZ AB2 TIMES NE
12278	CUNEIFORM SIGN NUNUZ AB2 TIMES SILA3
12279	CUNEIFORM SIGN NUNUZ AB2 TIMES U2
1227A	CUNEIFORM SIGN NUNUZ KISIM5 TIMES BI
1227B	CUNEIFORM SIGN NUNUZ KISIM5 TIMES BI U
1227C	CUNEIFORM SIGN PA
1227D	CUNEIFORM SIGN PAD
1227E	CUNEIFORM SIGN PAN
1227F	CUNEIFORM SIGN PAP

Row 122: CUNEIFORM

	1228	1229	122A	122B	122C	122D	122E	122F
0								
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G = 00
P = 01

Row 122: CUNEIFORM

hex	Name
12280	CUNEIFORM SIGN PESH2
12281	CUNEIFORM SIGN PI
12282	CUNEIFORM SIGN PI TIMES A
12283	CUNEIFORM SIGN PI TIMES AB
12284	CUNEIFORM SIGN PI TIMES BI
12285	CUNEIFORM SIGN PI TIMES BU
12286	CUNEIFORM SIGN PI TIMES E
12287	CUNEIFORM SIGN PI TIMES I
12288	CUNEIFORM SIGN PI TIMES IB
12289	CUNEIFORM SIGN PI TIMES U
1228A	CUNEIFORM SIGN PI TIMES U2
1228B	CUNEIFORM SIGN PI CROSSING PI
1228C	CUNEIFORM SIGN PIRIG
1228D	CUNEIFORM SIGN PIRIG TIMES KAL
1228E	CUNEIFORM SIGN PIRIG TIMES UD
1228F	CUNEIFORM SIGN PIRIG TIMES ZA
12290	CUNEIFORM SIGN PIRIG OPPOSING PIRIG
12291	CUNEIFORM SIGN RA
12292	CUNEIFORM SIGN RAB
12293	CUNEIFORM SIGN RI
12294	CUNEIFORM SIGN RU
12295	CUNEIFORM SIGN SA
12296	CUNEIFORM SIGN SAG NUTILLU
12297	CUNEIFORM SIGN SAG
12298	CUNEIFORM SIGN SAG TIMES A
12299	CUNEIFORM SIGN SAG TIMES DU
1229A	CUNEIFORM SIGN SAG TIMES DUB
1229B	CUNEIFORM SIGN SAG TIMES HA
1229C	CUNEIFORM SIGN SAG TIMES KAK
1229D	CUNEIFORM SIGN SAG TIMES KUR
1229E	CUNEIFORM SIGN SAG TIMES LUM
1229F	CUNEIFORM SIGN SAG TIMES MI
122A0	CUNEIFORM SIGN SAG TIMES NUN
122A1	CUNEIFORM SIGN SAG TIMES SAL
122A2	CUNEIFORM SIGN SAG TIMES SHID
122A3	CUNEIFORM SIGN SAG TIMES TAB
122A4	CUNEIFORM SIGN SAG TIMES U2
122A5	CUNEIFORM SIGN SAG TIMES UB
122A6	CUNEIFORM SIGN SAG TIMES UM
122A7	CUNEIFORM SIGN SAG TIMES UR
122A8	CUNEIFORM SIGN SAG TIMES USH
122A9	CUNEIFORM SIGN SAG OVER SAG
122AA	CUNEIFORM SIGN SAG GUNU
122AB	CUNEIFORM SIGN SAL
122AC	CUNEIFORM SIGN SAL LAGAB TIMES ASH2
122AD	CUNEIFORM SIGN SANGA2
122AE	CUNEIFORM SIGN SAR
122AF	CUNEIFORM SIGN SHA
122B0	CUNEIFORM SIGN SHA3
122B1	CUNEIFORM SIGN SHA3 TIMES A
122B2	CUNEIFORM SIGN SHA3 TIMES BAD
122B3	CUNEIFORM SIGN SHA3 TIMES GISH
122B4	CUNEIFORM SIGN SHA3 TIMES NE
122B5	CUNEIFORM SIGN SHA3 TIMES SHU2
122B6	CUNEIFORM SIGN SHA3 TIMES TUR
122B7	CUNEIFORM SIGN SHA3 TIMES U
122B8	CUNEIFORM SIGN SHA3 TIMES U PLUS A
122B9	CUNEIFORM SIGN SHA6
122BA	CUNEIFORM SIGN SHAB6
122BB	CUNEIFORM SIGN SHAR2
122BC	CUNEIFORM SIGN SHE
122BD	CUNEIFORM SIGN SHE HU
122BE	CUNEIFORM SIGN SHE OVER SHE GAD OVER GAD GAR OVER GAR
122BF	CUNEIFORM SIGN SHE OVER SHE TAB OVER TAB GAR OVER GAR
122C0	CUNEIFORM SIGN SHEG9
122C1	CUNEIFORM SIGN SHEN
122C2	CUNEIFORM SIGN SHESH
122C3	CUNEIFORM SIGN SHESH2
122C4	CUNEIFORM SIGN SHESHLAM
122C5	CUNEIFORM SIGN SHID
122C6	CUNEIFORM SIGN SHID TIMES A
122C7	CUNEIFORM SIGN SHID TIMES IM
122C8	CUNEIFORM SIGN SHIM
122C9	CUNEIFORM SIGN SHIM TIMES A
122CA	CUNEIFORM SIGN SHIM TIMES BAL
122CB	CUNEIFORM SIGN SHIM TIMES BULUG
122CC	CUNEIFORM SIGN SHIM TIMES DIN
122CD	CUNEIFORM SIGN SHIM TIMES GAR
122CE	CUNEIFORM SIGN SHIM TIMES IGI
122CF	CUNEIFORM SIGN SHIM TIMES IGI GUNU
122D0	CUNEIFORM SIGN SHIM TIMES KUSHU2
122D1	CUNEIFORM SIGN SHIM TIMES LUL
122D2	CUNEIFORM SIGN SHIM TIMES MUG
122D3	CUNEIFORM SIGN SHIM TIMES SAL
122D4	CUNEIFORM SIGN SHINIG
122D5	CUNEIFORM SIGN SHIR
122D6	CUNEIFORM SIGN SHIR TENU

hex	Name
122D7	CUNEIFORM SIGN SHIR OVER SHIR BUR OVER BUR
122D8	CUNEIFORM SIGN SHITA
122D9	CUNEIFORM SIGN SHU
122DA	CUNEIFORM SIGN SHU OVER INVERTED SHU
122DB	CUNEIFORM SIGN SHU2
122DC	CUNEIFORM SIGN SHUBUR
122DD	CUNEIFORM SIGN SI
122DE	CUNEIFORM SIGN SI GUNU
122DF	CUNEIFORM SIGN SIG
122E0	CUNEIFORM SIGN SIG4
122E1	CUNEIFORM SIGN SIG4 OVER SIG4 SHU2
122E2	CUNEIFORM SIGN SIK2
122E3	CUNEIFORM SIGN SILA3
122E4	CUNEIFORM SIGN SU
122E5	CUNEIFORM SIGN SU OVER SU A
122E6	CUNEIFORM SIGN SUD
122E7	CUNEIFORM SIGN SUD2
122E8	CUNEIFORM SIGN SUHUR
122E9	CUNEIFORM SIGN SUM
122EA	CUNEIFORM SIGN SUMASH
122EB	CUNEIFORM SIGN SUR
122EC	CUNEIFORM SIGN SUR9
122ED	CUNEIFORM SIGN TA
122EE	CUNEIFORM SIGN TA ASTERISK
122EF	CUNEIFORM SIGN TA TIMES HI
122F0	CUNEIFORM SIGN TA TIMES MI
122F1	CUNEIFORM SIGN TA GUNU
122F2	CUNEIFORM SIGN TAB
122F3	CUNEIFORM SIGN TAB OVER TAB NI OVER NI DISH OVER DISH
122F4	CUNEIFORM SIGN TAB SQUARED
122F5	CUNEIFORM SIGN TAG
122F6	CUNEIFORM SIGN TAG TIMES BI
122F7	CUNEIFORM SIGN TAG TIMES GUD
122F8	CUNEIFORM SIGN TAG TIMES KU
122F9	CUNEIFORM SIGN TAG TIMES SHE
122FA	CUNEIFORM SIGN TAG TIMES SHU
122FB	CUNEIFORM SIGN TAG TIMES TUG2
122FC	CUNEIFORM SIGN TAG TIMES UD
122FD	CUNEIFORM SIGN TAK4
122FE	CUNEIFORM SIGN TAR
122FF	CUNEIFORM SIGN TE

Row 123: CUNEIFORM

	1230	1231	1232	1233	1234	1235	1236	1237
0								
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A								
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G = 00
P = 01

Row 123: CUNEIFORM

hex	Name
12300	CUNEIFORM SIGN TE GUNU
12301	CUNEIFORM SIGN TI
12302	CUNEIFORM SIGN TI TENU
12303	CUNEIFORM SIGN TIL
12304	CUNEIFORM SIGN TIR
12305	CUNEIFORM SIGN TIR TIMES TAK4
12306	CUNEIFORM SIGN TIR OVER TIR
12307	CUNEIFORM SIGN TIR OVER TIR GAD OVER GAD GAR OVER GAR
12308	CUNEIFORM SIGN TU
12309	CUNEIFORM SIGN TUG2
1230A	CUNEIFORM SIGN TUK
1230B	CUNEIFORM SIGN TUM
1230C	CUNEIFORM SIGN TUR
1230D	CUNEIFORM SIGN TUR OVER TUR ZA OVER ZA
1230E	CUNEIFORM SIGN U
1230F	CUNEIFORM SIGN U GUD
12310	CUNEIFORM SIGN U U U
12311	CUNEIFORM SIGN U OVER U PA OVER PA GAR OVER GAR
12312	CUNEIFORM SIGN U OVER U SUR OVER SUR
12313	CUNEIFORM SIGN U OVER U U REVERSED OVER U REVERSED
12314	CUNEIFORM SIGN U2
12315	CUNEIFORM SIGN UB
12316	CUNEIFORM SIGN UD
12317	CUNEIFORM SIGN UD KUSHU2
12318	CUNEIFORM SIGN UD TIMES BAD
12319	CUNEIFORM SIGN UD TIMES MI
1231A	CUNEIFORM SIGN UD TIMES U PLUS U PLUS U
1231B	CUNEIFORM SIGN UD TIMES U PLUS U PLUS U GUNU
1231C	CUNEIFORM SIGN UD GUNU
1231D	CUNEIFORM SIGN UD SHESHIG
1231E	CUNEIFORM SIGN UD SHESHIG TIMES BAD
1231F	CUNEIFORM SIGN UDU2
12320	CUNEIFORM SIGN UM
12321	CUNEIFORM SIGN UM TIMES LAGAB
12322	CUNEIFORM SIGN UM TIMES ME PLUS DA
12323	CUNEIFORM SIGN UM TIMES SHA3
12324	CUNEIFORM SIGN UM TIMES U
12325	CUNEIFORM SIGN UMBIN
12326	CUNEIFORM SIGN UMUM
12327	CUNEIFORM SIGN UMUM TIMES KASKAL
12328	CUNEIFORM SIGN UMUM TIMES PA
12329	CUNEIFORM SIGN UN
1232A	CUNEIFORM SIGN UN GUNU
1232B	CUNEIFORM SIGN UR
1232C	CUNEIFORM SIGN UR CROSSING UR
1232D	CUNEIFORM SIGN UR SHESHIG
1232E	CUNEIFORM SIGN UR2
1232F	CUNEIFORM SIGN UR2 TIMES A PLUS HA
12330	CUNEIFORM SIGN UR2 TIMES A PLUS NA
12331	CUNEIFORM SIGN UR2 TIMES AL
12332	CUNEIFORM SIGN UR2 TIMES HA
12333	CUNEIFORM SIGN UR2 TIMES NUN
12334	CUNEIFORM SIGN UR2 TIMES U2
12335	CUNEIFORM SIGN UR2 TIMES U2 PLUS ASH
12336	CUNEIFORM SIGN UR2 TIMES U2 PLUS BI
12337	CUNEIFORM SIGN UR4
12338	CUNEIFORM SIGN URI
12339	CUNEIFORM SIGN URI3
1233A	CUNEIFORM SIGN URU
1233B	CUNEIFORM SIGN URU TIMES A
1233C	CUNEIFORM SIGN URU TIMES ASHGAB
1233D	CUNEIFORM SIGN URU TIMES BAR
1233E	CUNEIFORM SIGN URU TIMES DUN
1233F	CUNEIFORM SIGN URU TIMES GA
12340	CUNEIFORM SIGN URU TIMES GAL
12341	CUNEIFORM SIGN URU TIMES GAN2 TENU
12342	CUNEIFORM SIGN URU TIMES GAR
12343	CUNEIFORM SIGN URU TIMES GU
12344	CUNEIFORM SIGN URU TIMES HA
12345	CUNEIFORM SIGN URU TIMES IGI
12346	CUNEIFORM SIGN URU TIMES IM
12347	CUNEIFORM SIGN URU TIMES ISH
12348	CUNEIFORM SIGN URU TIMES KI
12349	CUNEIFORM SIGN URU TIMES LUM
1234A	CUNEIFORM SIGN URU TIMES MIN
1234B	CUNEIFORM SIGN URU TIMES PA
1234C	CUNEIFORM SIGN URU TIMES SHE
1234D	CUNEIFORM SIGN URU TIMES SIG4
1234E	CUNEIFORM SIGN URU TIMES TU
1234F	CUNEIFORM SIGN URU TIMES U PLUS GUD
12350	CUNEIFORM SIGN URU TIMES UD
12351	CUNEIFORM SIGN URU TIMES URUDA
12352	CUNEIFORM SIGN URUDA
12353	CUNEIFORM SIGN URUDA TIMES U
12354	CUNEIFORM SIGN USH
12355	CUNEIFORM SIGN USH TIMES A

hex	Name
12356	CUNEIFORM SIGN USH TIMES KU
12357	CUNEIFORM SIGN USH TIMES KUR
12358	CUNEIFORM SIGN USH TIMES TAK4
12359	CUNEIFORM SIGN USHX
1235A	CUNEIFORM SIGN USH2
1235B	CUNEIFORM SIGN USHUMX
1235C	CUNEIFORM SIGN UTUKI
1235D	CUNEIFORM SIGN UZ3
1235E	CUNEIFORM SIGN UZ3 TIMES KASKAL
1235F	CUNEIFORM SIGN UZU
12360	CUNEIFORM SIGN ZA
12361	CUNEIFORM SIGN ZA TENU
12362	CUNEIFORM SIGN ZA SQUARED TIMES KUR
12363	CUNEIFORM SIGN ZAX
12364	CUNEIFORM SIGN ZADIM
12365	CUNEIFORM SIGN ZAG
12366	CUNEIFORM SIGN ZAMX
12367	CUNEIFORM SIGN ZE2
12368	CUNEIFORM SIGN ZI
12369	CUNEIFORM SIGN ZI OVER ZI
1236A	CUNEIFORM SIGN ZI3
1236B	CUNEIFORM SIGN ZIB
1236C	CUNEIFORM SIGN ZIB KABA TENU
1236D	CUNEIFORM SIGN ZIG
1236E	CUNEIFORM SIGN ZIZ2
1236F	CUNEIFORM SIGN ZU
12370	CUNEIFORM SIGN ZU5
12371	CUNEIFORM SIGN ZU5 TIMES A
12372	CUNEIFORM SIGN ZUBUR
12373	CUNEIFORM SIGN ZUM
12374	(This position shall not be used)
12375	(This position shall not be used)
12376	(This position shall not be used)
12377	(This position shall not be used)
12378	(This position shall not be used)
12379	(This position shall not be used)
1237A	(This position shall not be used)
1237B	(This position shall not be used)
1237C	(This position shall not be used)
1237D	(This position shall not be used)
1237E	(This position shall not be used)
1237F	(This position shall not be used)

Row 124: CUNEIFORM NUMBERS

	1240	1241	1242	1243	1244	1245	1246	1247
0								
1								
2								
3								
4								
5								
6								
7								
8								
9								
A								
B								
C								
D								
E								
F								

G = 00
P = 01

Row 124: CUNEIFORM NUMBERS

hex	Name
12400	CUNEIFORM NUMERIC SIGN TWO ASH
12401	CUNEIFORM NUMERIC SIGN THREE ASH
12402	CUNEIFORM NUMERIC SIGN FOUR ASH
12403	CUNEIFORM NUMERIC SIGN FIVE ASH
12404	CUNEIFORM NUMERIC SIGN SIX ASH
12405	CUNEIFORM NUMERIC SIGN SEVEN ASH
12406	CUNEIFORM NUMERIC SIGN EIGHT ASH
12407	CUNEIFORM NUMERIC SIGN NINE ASH
12408	CUNEIFORM NUMERIC SIGN THREE DISH
12409	CUNEIFORM NUMERIC SIGN FOUR DISH
1240A	CUNEIFORM NUMERIC SIGN FIVE DISH
1240B	CUNEIFORM NUMERIC SIGN SIX DISH
1240C	CUNEIFORM NUMERIC SIGN SEVEN DISH
1240D	CUNEIFORM NUMERIC SIGN EIGHT DISH
1240E	CUNEIFORM NUMERIC SIGN NINE DISH
1240F	CUNEIFORM NUMERIC SIGN FOUR U
12410	CUNEIFORM NUMERIC SIGN FIVE U
12411	CUNEIFORM NUMERIC SIGN SIX U
12412	CUNEIFORM NUMERIC SIGN SEVEN U
12413	CUNEIFORM NUMERIC SIGN EIGHT U
12414	CUNEIFORM NUMERIC SIGN NINE U
12415	CUNEIFORM NUMERIC SIGN ONE GESH2
12416	CUNEIFORM NUMERIC SIGN TWO GESH2
12417	CUNEIFORM NUMERIC SIGN THREE GESH2
12418	CUNEIFORM NUMERIC SIGN FOUR GESH2
12419	CUNEIFORM NUMERIC SIGN FIVE GESH2
1241A	CUNEIFORM NUMERIC SIGN SIX GESH2
1241B	CUNEIFORM NUMERIC SIGN SEVEN GESH2
1241C	CUNEIFORM NUMERIC SIGN EIGHT GESH2
1241D	CUNEIFORM NUMERIC SIGN NINE GESH2
1241E	CUNEIFORM NUMERIC SIGN ONE GESHU
1241F	CUNEIFORM NUMERIC SIGN TWO GESHU
12420	CUNEIFORM NUMERIC SIGN THREE GESHU
12421	CUNEIFORM NUMERIC SIGN FOUR GESHU
12422	CUNEIFORM NUMERIC SIGN FIVE GESHU
12423	CUNEIFORM NUMERIC SIGN TWO SHAR2
12424	CUNEIFORM NUMERIC SIGN THREE SHAR2
12425	CUNEIFORM NUMERIC SIGN THREE SHAR2 VARIANT FORM
12426	CUNEIFORM NUMERIC SIGN FOUR SHAR2
12427	CUNEIFORM NUMERIC SIGN FIVE SHAR2
12428	CUNEIFORM NUMERIC SIGN SIX SHAR2
12429	CUNEIFORM NUMERIC SIGN SEVEN SHAR2
1242A	CUNEIFORM NUMERIC SIGN EIGHT SHAR2
1242B	CUNEIFORM NUMERIC SIGN NINE SHAR2
1242C	CUNEIFORM NUMERIC SIGN ONE SHARU
1242D	CUNEIFORM NUMERIC SIGN TWO SHARU
1242E	CUNEIFORM NUMERIC SIGN THREE SHARU
1242F	CUNEIFORM NUMERIC SIGN THREE SHARU VARIANT FORM
12430	CUNEIFORM NUMERIC SIGN FOUR SHARU
12431	CUNEIFORM NUMERIC SIGN FIVE SHARU
12432	CUNEIFORM NUMERIC SIGN SHAR2 TIMES GAL PLUS DISH
12433	CUNEIFORM NUMERIC SIGN SHAR2 TIMES GAL PLUS MIN
12434	CUNEIFORM NUMERIC SIGN ONE BURU
12435	CUNEIFORM NUMERIC SIGN TWO BURU
12436	CUNEIFORM NUMERIC SIGN THREE BURU
12437	CUNEIFORM NUMERIC SIGN THREE BURU VARIANT FORM
12438	CUNEIFORM NUMERIC SIGN FOUR BURU
12439	CUNEIFORM NUMERIC SIGN FIVE BURU
1243A	CUNEIFORM NUMERIC SIGN THREE VARIANT FORM ESH16
1243B	CUNEIFORM NUMERIC SIGN THREE VARIANT FORM ESH21
1243C	CUNEIFORM NUMERIC SIGN FOUR VARIANT FORM LIMMU
1243D	CUNEIFORM NUMERIC SIGN FOUR VARIANT FORM LIMMU4
1243E	CUNEIFORM NUMERIC SIGN FOUR VARIANT FORM LIMMU A
1243F	CUNEIFORM NUMERIC SIGN FOUR VARIANT FORM LIMMU B
12440	CUNEIFORM NUMERIC SIGN SIX VARIANT FORM ASH9
12441	CUNEIFORM NUMERIC SIGN SEVEN VARIANT FORM IMIN3
12442	CUNEIFORM NUMERIC SIGN SEVEN VARIANT FORM IMIN A
12443	CUNEIFORM NUMERIC SIGN SEVEN VARIANT FORM IMIN B
12444	CUNEIFORM NUMERIC SIGN EIGHT VARIANT FORM USSU
12445	CUNEIFORM NUMERIC SIGN EIGHT VARIANT FORM USSU3
12446	CUNEIFORM NUMERIC SIGN NINE VARIANT FORM ILIMMU

hex	Name
12447	CUNEIFORM NUMERIC SIGN NINE VARIANT FORM ILIMMU3
12448	CUNEIFORM NUMERIC SIGN NINE VARIANT FORM ILIMMU4
12449	CUNEIFORM NUMERIC SIGN NINE VARIANT FORM ILIMMU A
1244A	CUNEIFORM NUMERIC SIGN TWO ASH TENU
1244B	CUNEIFORM NUMERIC SIGN THREE ASH TENU
1244C	CUNEIFORM NUMERIC SIGN FOUR ASH TENU
1244D	CUNEIFORM NUMERIC SIGN FIVE ASH TENU
1244E	CUNEIFORM NUMERIC SIGN SIX ASH TENU
1244F	CUNEIFORM NUMERIC SIGN ONE BAN2
12450	CUNEIFORM NUMERIC SIGN TWO BAN2
12451	CUNEIFORM NUMERIC SIGN THREE BAN2
12452	CUNEIFORM NUMERIC SIGN FOUR BAN2
12453	CUNEIFORM NUMERIC SIGN FOUR BAN2 VARIANT FORM
12454	CUNEIFORM NUMERIC SIGN FIVE BAN2
12455	CUNEIFORM NUMERIC SIGN FIVE BAN2 VARIANT FORM
12456	CUNEIFORM NUMERIC SIGN TWO BARIG
12457	CUNEIFORM NUMERIC SIGN THREE BARIG
12458	CUNEIFORM NUMERIC SIGN ONE ESHE3
12459	CUNEIFORM NUMERIC SIGN TWO ESHE3
1245A	CUNEIFORM NUMERIC SIGN ONE THIRD DISH
1245B	CUNEIFORM NUMERIC SIGN TWO THIRDS DISH
1245C	CUNEIFORM NUMERIC SIGN FIVE SIXTHS DISH
1245D	CUNEIFORM NUMERIC SIGN ONE THIRD VARIANT FORM A
1245E	CUNEIFORM NUMERIC SIGN TWO THIRDS VARIANT FORM A
1245F	CUNEIFORM NUMERIC SIGN ONE EIGHTH ASH
12460	CUNEIFORM NUMERIC SIGN ONE QUARTER ASH
12461	CUNEIFORM NUMERIC SIGN OLD ASSYRIAN ONE SIXTH
12462	CUNEIFORM NUMERIC SIGN OLD ASSYRIAN ONE QUARTER
12463	(This position shall not be used)
12464	(This position shall not be used)
12465	(This position shall not be used)
12466	(This position shall not be used)
12467	(This position shall not be used)
12468	(This position shall not be used)
12469	(This position shall not be used)
1246A	(This position shall not be used)
1246B	(This position shall not be used)
1246C	(This position shall not be used)
1246D	(This position shall not be used)
1246E	(This position shall not be used)
1246F	(This position shall not be used)
12470	CUNEIFORM PUNCTUATION SIGN OLD ASSYRIAN WORD DIVIDER
12471	CUNEIFORM PUNCTUATION SIGN VERTICAL COLON
12472	CUNEIFORM PUNCTUATION SIGN DIAGONAL COLON
12473	CUNEIFORM PUNCTUATION SIGN DIAGONAL TRICOLON
12474	(This position shall not be used)
12475	(This position shall not be used)
12476	(This position shall not be used)
12477	(This position shall not be used)
12478	(This position shall not be used)
12479	(This position shall not be used)
1247A	(This position shall not be used)
1247B	(This position shall not be used)
1247C	(This position shall not be used)
1247D	(This position shall not be used)
1247E	(This position shall not be used)
1247F	(This position shall not be used)