ISO/IEC JTC1/SC2/WG2 N5910 2010-09-16

Title: Proposal for Encoding Chinese Chess Symbol in the SMP of the UCS

Source: China

Status: Member body contribution

Action: For consideration by WG2

Date: 2010-09-16

ISO/IEC JTC PROPOSAL SUMMARY FORM TO FOR ADDITIONS TO THE REP Please fill all the section Please read Principles and Procedures Document (P & P) from http://wy details before fill	D ACCOMPANY SUBMISSIONS ERTOIRE OF ISO/IEC 10646 ¹ ns A, B and C below. <u>ww.dkuug.dk/JTC1/SC2/WG2/docs/principles.html</u> for guidelines and ling this form.
Please ensure you are using the latest Form from http://w See also http://www.dkuug.dk/JTC1/SC2/WG2	ww.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html.
A. Administrative	to ratest roadmaps.
 Requester's name: Requester type (Member body/Liaison/Individual contribution): Submission date: 	se Chess Symbol in the SMP of the UCS China Member body 2010-09-16
6. Choose one of the following: This is a complete proposal: (or) More information will be provided later:	Yes
B. Technical – General	
 Choose one of the following: a. This proposal is for a new script (set of characters): Proposed name of script: b. The proposal is for addition of character(s) to an existing block: 	Yes Chinese Chess Symbols ock: No
2. Number of characters in proposal:	34
3. Proposed category (select one from below - see section 2.2 of P& A-Contemporary X B.1-Specialized (small collection) C-Major extinct D-Attested extinct F-Archaic Hieroglyphic or Ideographic 4. Is a repertoire including character names provided?	P document): B.2-Specialized (large collection) E-Minor extinct G-Obscure or questionable usage symbols
a. If YES, are the names in accordance with the "character namin Annex L of P&P document?b. Are the character shapes attached in a legible form suitable	Yes
 5. Fonts related: a. Who will provide the appropriate computerized font to the l Weifang Beida Jade Bird Huaguang Imagesetter Co.,Ltd, Cl b. Identify the party granting a license for use of the font by th chenzh@c 	ninese Electronics Standardization Institute. ne editors (include address, e-mail, ftp-site, etc.):
 6. References: a. Are references (to other character sets, dictionaries, description b. Are published examples of use (such as samples from news) 	tive texts etc.) provided? Yes
 Special encoding issues: Does the proposal address other aspects of character data proc presentation, sorting, searching, indexing, transliteration etc. (cessing (if applicable) such as input,
8. Additional Information:	

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 behav iour, Spac ing b ehaviour, Directional b ehaviour, Defau lt Collation behavi our, r elevance in Mark Up contexts, Compatibility equivalence and other Unicode normalization related inform ation. See the Uni code s tandard at http://www.unicode.org for such information on other scripts. Also see http://www.unicode.org/Public/UNIDATA/UCD.html and associated Unicode Technical Reports for information needed for consideration by the Unicode Technical Committee for inclusion in the Unicode Standard.

In the Onicode Standard.		
C. Technical - Justification		
1. Has this proposal for addition of character	(s) been submitted before?	No
If VES overlain		
	user community (for example: National Body,	
user groups of the script or characters,		
If YES, with whom?		
If YES, available relevant docu		_
3. Information on the user community for the		
	ology use, or publishing use) is included?	Yes
Reference: More than ten mil	lions people play manual Chinese chess game, and more than ter	n thousand people
	onl ine C hinese chess game. for ex ample, http://www	
	city.com/games/chinesechess.html or to find a lot of relevant info	
the google to search	h the keyword "Chinese chess"	
4. The context of use for the proposed charac	ters (type of use; common or rare)	common
	s with anoth er people and with computer (i.e., computer game	
	ernet (i.e., online game). for example, http://www.clubxiangqi.co	
5. Are the proposed characters in current use		Yes
If YES, where? Reference:	for example, http://www.clubxiangqi.com/	
6. After giving due considerations to the prin	ciples in the P&P document must the proposed characters be enti	irely
in the BMP?		No
If YES, is a rationale provide	ed?	
If YES, reference:		
	gether in a contiguous range (rather than being scattered)?	Yes
8. Can any of the proposed characters be con		
character or character sequence?		No
If YES, is a rationale for its	inclusion provided?	
If YES, reference:		
	oded using a composed character sequence of either	
existing characters or other proposed c		No
If YES, is a rationale for its		
If YES, is a lationate for its in If YES, reference:		
	considered to be similar (in appearance or function)	<u>-</u>
to an existing character?	considered to be similar (in appearance of function)	No
If YES, is a rationale for its	inclusion provided?	110
If YES, reference:	1	
	ng characters and/or use of composite sequences?	No
If YES, is a rationale for such use prov	/1ded /	
If YES, reference:		
	eir corresponding glyph images (graphic symbols) provided?	
If YES, reference:		
12. Does the proposal contain characters with		
control function or similar semantics		No
If YES, describe in detail (in	clude attachment if necessary)	
13. Does the proposal contain any Ideograph		No
If YES, is the equivalent corresponding	g unified ideographic character(s) identified?	
If YES, reference:		

1 User Community

Chinese che ss is a trad itional board gam e which is played by two players. It has a lot of similarities with international che ss and Jap anese chess. It is very popular in A sia-Pacific region. With the culture ex change between Eastern and Western country, more and more Western people become to like to play Chinese chess.

French Bouathong Ye wrote an article about the chess; he said that in Europe and the United States, although, people in general thought that international chess was the most popular chess in the world, actually, their player only accounts for 40 percent of the world population. Chinese chess players were perhaps much more than that number.

Chinese Chess is a kind of game for entertainment. It is also a kind of intellectual development game. It can train people's capacity of decision-making, people's ability to bear the loose and so on. For example, some chess players often publish Chinese chess Pai board in the newspapers, magazines, networks. The process of creating and answering Pai Board is like poetry to be created and enjoyed. At this point, we can say Chinese chess is an art. In the electronic era, Chinese chess has become an intellect competing platform for human brain and computer. The purpose for the competition is not only to compare the human brain to the computer; it is the commercial interests which we seek. In this sense, playing Chinese chess is socio-economic activities.

2 Invention of Chinese Chess

Chinese Chess also known as "Elephant opera" or "orange in the Opera", had evolved from the gambling in pre-Qin era. It was closely related to the war between Chu and Han in the end of Qin Dynasty. At that time, playing the "six-Bo" chess that each side only had six pieces was in fashion. During the Tong Dynasty, there were some improvement which Chinese chess consisted of General, horses, carriages and pawns, total four branches. Like international chess, Chinese chess board was also composed of 64 black-and-white grids. By the time of the Song Dynasty, Chinese chess had formed basic format, except adding a piece of "cannon", due to the invention of gunpowder, also adding the "Assistant ", "elephant" into the game. In the book "thing Lin Guang Ji" of Song time, the earliest Chinese chess "Qi Pu" was found, which was 200 years earlier than the first international chess "Qi Pu". This finding raised a question whether or not Chinese chess came from India. In the Ming Dynasty, Chinese chess got further development, the Party B's "General" was replaced by "Marshal". Chess pawns divided into two colors, "Marshal" side was red color; the other side was black, known as the "red Marshal black "General"." This format was the same as our "Red Marshal, black General " originated in the modern Chinese Chess. According to the legend, "conflict between Chu and Han", "red Marshal" "black General" stand for Liu Bang, Xiang Yu, that was, the red side was on behalf of Liu Bang's army, black side represented Xiong Yu' troops.

3 Spread of Chinese Chess

Chinese Chess formed about the 5th century in the Tang Dynasty in China, was first introduced to Japan, then Korea, Vietnam, Indonesia, the Philippines, Singapore and other countries. With the chess internationalization, chess associations and organizations were established in Europe, Nort h America and Australia and other countries and regi ons. Only in Europe, there were m any national chess organizations, such as Italy chess association, the French Chess Federation, France Chaozhou Association chess group, the Neth erlands chess s a ssociation, the Neth erlands Sports Association Chinese chess group, the British Chess Association on, the National Chess Federation of Ger many, West Berlin Chinese Chess Association. As a resu It of the promotion in European countries' chess associations and or ganizations, more and m ore Europeans b ecome to enjoy Chinese chess. USA, Canada and other places also have set up chess organizations such as the U.S. Eas t Coast Chess

Association, Toronto Chess Association.

4 Type of Chinese chess

There are two types of Chinese chesses, Sim plified and T raditional chesses. Both have the same kind of Chessboard, the way of playing a nd layo ut, except d ifferent Chinese characters between simplified and traditional chess.

5 Style and coding of Chinese chess

Chinese chess is made up of chess board and chess pieces.

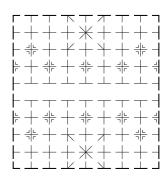
a. Chessboard symbols

Chessboard is a rectang ular plane b oard. There are nine vertical lin es and ten horizontal lines on the Chinese chess board, w hich forms 90 intersections. The pieces are placed on the intersections and move along the lines.

There is an interruption between the nine vert ical lines that divide s the board into two halves of five horizontal line s each. The interruption serves as the middle point and is known as the river.

Centered at the first through th ird ranks of the board is a square zone, also m irrored in the opponent's territory. The three points by three point zone is dem arcated by two diagonal lines connecting opposite corners and inte rsecting at the center point. This area is known as the palace or fortress. The Marshal /General can only move inside this area.

we totally need 23 fonts, or codes to de scribe the Chin ese chess on the paper, but 1 1 codes have already been described in ISO/IEC Table 76 - Row 25: Box Drawing.



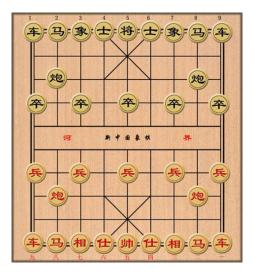
符号	编码	符号描述
Г	250f	BOX DRAWINGS HEAVY DOWN AND RIGHT
٦	2513	BOX DRAWINGS HEAVY DOWN AND LEFT
L	2517	BOX DRAWINGS HEAVY UP AND RIGHT
_ _	2517	BOX DRAWINGS LIGHT UP AND LEFT
$\overline{}$	252f	BOX DRAWINGS DOWN LIGHT AND HORIZONTAL HEAVY
<u> </u>	2537	BOX DRAWINGS UP LIGHT AND HORIZONTAL HEAVY
F	2520	BOX DRAWINGS VERTICAL HEAVY AND RIGHT LIGHT
-	2528	BOX DRAWINGS VERTICAL HEAVY AND LEFT LIGHT
+	253c	BOX DRAWINGS LIGHT VERTICAL AND HORIZONTAL
	2534	BOX DRAWINGS LIGHT UP AND HORIZONTAL
\top	252c	BOX DRAWINGS LIGHT DOWN AND HORIZONTAL

we only need to increase 12 m ore new codes. They are described in the behind T able of Chinese chess symbol.

b. Piece

Piece, like flat-colum n, is usually m ade by w ood or plastic m aterials. On the one side, engraved with Chinese characters. Their positions on the board when a gam e starts are as

follows (take Simplified Chinese chess for example):



Simplified Chinese chess has a total 32 pieces, which are divided into red and black two sides; each side has 16 pieces, and 7 classes. Therefore, we need 14 codes for it.

Red Black	Name	No. on each side	Abbreviation
(III) (IIII) (III)	Marshal, General (King)	1	M/G
	Mandarin (Assistant)	2	М
相象	Prime minister 、Elephant	2	P/E
(4)	Chariot (Rook)	2	C (R)
3 9	Horse 2		Н
炮炮	Cannon	2	С
Æ	Soldier (Pawn)	5	S (P)

Like Simplified Chinese chess, traditional Chinese chess also has 32 pieces, 16 pieces for each side (red or black side). Every side has 7 classes (General, Assistant, Elephant, Chariot, Horse, Cannon, and Pawn), some of these such as red Elephant, red Mandarin, red pawn, black Mandarin, black Elephant, black pawn are as same as Simplified Chinese chess, So, we need add another 8 codes.

Red Black	Name	No. on each side	Abbreviation
前將	Marshal, General (King)	1	M/G

	Mandarin (Assistant)	2	M(A)
相象	Prime minister, Elephant	2	P, E
	Chariot (Rook)	2	C (R)
E	Horse 2		Н
藏的	Cannon	2	С
Æ	Soldier (Pawn)	5	S (P)

Therefore, we need 22 codes for Chinese chess pieces. Totally, there are 34 code posit ion needed for Chinese chess symbols, described in the following table:

Table: Chinese chess symbol

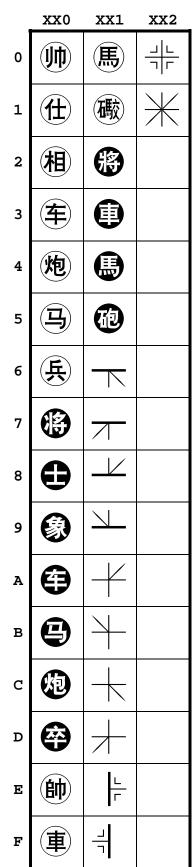


Table: Chinese chess symbol

HEX	NAME
XX00	CHINESE CHESS SIMPLIFIED RED MARSHAL
XX01	CHINESE CHESS SIMPLIFIED RED MANDARIN
XX02	CHINESE CHESS SIMPLIFIED RED ELEPHANT
XX03	CHINESE CHESS SIMPLIFIED RED CHARIOT
XX04	CHINESE CHESS SIMPLIFIED RED HORSE
XX05	CHINESE CHESS SIMPLIFIED RED CANNON
XX06	CHINESE CHESS SIMPLIFIED RED PAWN
XX07	CHINESE CHESS SIMPLIFIED BLACK GENERAL
XX08	CHINESE CHESS SIMPLIFIED BLACK ASSISTANT
XX09	CHINESE CHESS SIMPLIFIED BLACK ELEPHANT
XX0A	CHINESE CHESS SIMPLIFIED BLACK CHARIOT
XX0B	CHINESE CHESS SIMPLIFIED BLACK HORSE
XX0C	CHINESE CHESS SIMPLIFIED BLACK CANNON
XX0D	CHINESE CHESS SIMPLIFIED BLACK PAWN
XX0E	CHINESE CHESS TRADITIONAL RED MARSHAL
XX0F	CHINESE CHESS TRADITIONAL RED CHARIOT
XX10	CHINESE CHESS TRADITIONAL RED HORSE
XX11	CHINESE CHESS TRADITIONAL RED CANNON
XX12	CHINESE CHESS TRADITIONAL BLACK GENERAL
XX13	CHINESE CHESS TRADITIONAL BLACK CHARIOT
XX14	CHINESE CHESS BLACK HORSE OF TRADITIONAL
XX15	CHINESE CHESS TRADITIONAL BLACK CANNON
XX16	CHINESE CHESS BOX DRA WINGS LIGHT DIAGONAL UPPER LEFT TO LOWER RIGH T AND DOWN LIGHT AND HORIAONTAL HEAVY
XX17	CHINESE CHESS BOX DRAWINGS LIGHT DIAGONALUPPER RIGHT TO LOWER LEFT AND DOWN LIGHT AND HORIZONTAL HEAVY

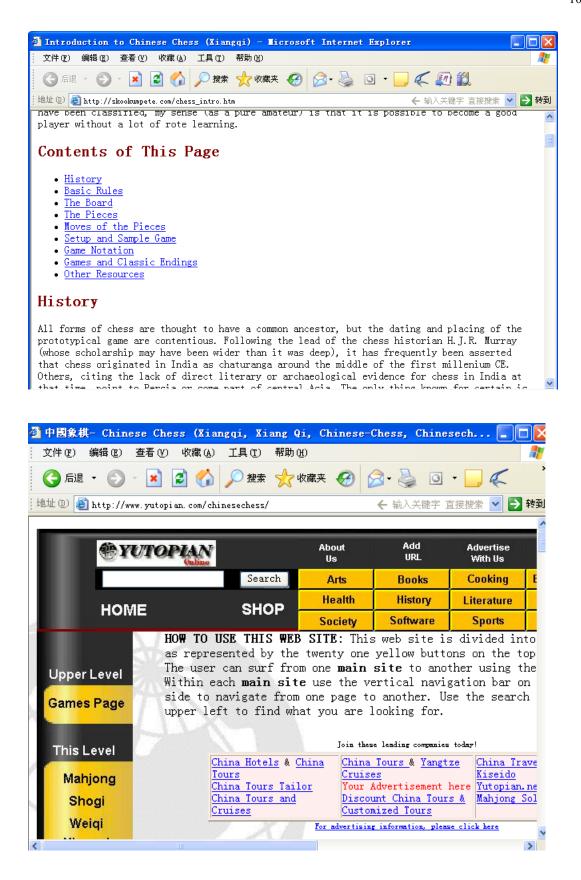
XX18	CHINESE CHESS BOX DRA WINGS LIGHT DIAGONAL LOWER LEFT TO UPPER RIGHT AND UP LIGHT AND HORIZONTAL HEAVY
XX19	CHINESE CHESS BOX DRA WINGS LIGHT DIAGONAL LOWER RIGHT TO UPPER LIFT AND UP LIGHT AND HORIZONTAL HEZVY
XX1A	CHINESE CHESS BOX DRA WINGS LIGHT DIAGONAL LOWER LEFT TO UPPER RIGHT AND LIGHT VERTICAL AND HORIZONTAL
XX1B	CHINESE CHESS BOX DRA WINGS LIGHT DIAGONAL LOWER LEFT TO UPPER RIGHT AND LIGHT VERTICAL AND HORIZONTAL
XX1C	CHINESE CHESS BOX DRA WING LIGHT DI AGONAL UPPER LEFT TO LOWER RIGHT AND LIGHT VERTICAL AND HORIZONTAL
XX1D	CHINESE CHESS BOX DRA WINGS LIGHT DIAGONAL UPPER RIGHT TO LOWER LEFT AND LIGHT VERTICAL AND HORIZONTAL
XX1E	CHINESE CHESS CHESSBOARD DEPOT LBV
XX1F	CHINESE CHESS RIGHT SIDE OF THE CHESSBOARD THE MILITARV SECTOR
XX20	CHINESE CHESS SOLDIERS SITE
XX21	CHINESE CHESS BOX DRAWING LIGHT DIAGONAL CROSS AND LI GHT VERTICAL AND HORIZONTAL

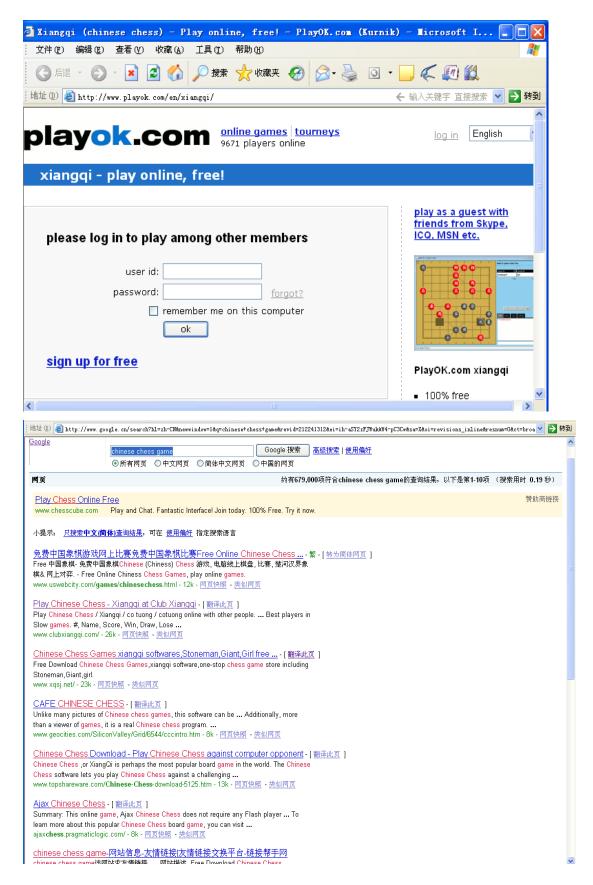
6 References

Online Chinese Chess game website

English website:

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Simplified Chinese website:

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4 祖玛游戏中文豪华版 Zu	文件大小: 412 K 界面預覧: ■ 点击查看
5 历史记录管理器	发布日期: 2005.10.12 软件类型: 共享
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7 E-钻文件夹加密大师	- XFT 分級・ 系統平台: Symbian S80
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Traditional Chinese site:



Japanese site:





Indonesia Website:

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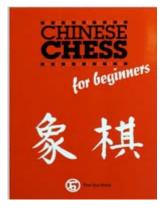
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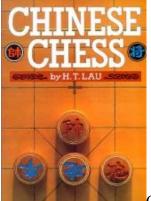
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