

Sontag-Weischel Power Precision

Transcribed by Eugene Hung

----- Definitions

| -- OR
: -- LHO of opener passes
:: -- RHO of opener passes
[] -- convention name
gf -- game forcing
M -- Major
m -- minor
oM -- other Major
om -- other Minor
X -- any suit not already defined
Y -- any suit not already defined
(xxxx) -- suits are interchangeable

HCP -- High Card Points
top honor -- A, K, or Q
to play -- requests partner to pass
sign-off -- demands partner pass (barring a psyche)
solid suit -- AKQJ sixth or AKQ seventh +
semi-solid suit -- AKJ, AQJ, or KQJ sixth +
cover card -- covers a loser (ruffing values included)
splinter -- shows 4-card support and a stiff, forcing
followup -- if not specified, step 1 after an asking bid

step -- step 1 is always X or XX if available
step 2 is pass if available (not available if opp passes)
step 3 is the cheapest denomination (includes NT)
and so on.

----- Asking bids

All asks are forcing.

[suit-control-ask] -- step 1: no first or 2nd round control
step 2: singleton or king
step 3: void or ace

[X-control-ask :
step 1 : X controls
step 2 : X + 1 controls
step 3 : X + 2 controls
etc.]

[A1-control-ask :
step 1 : 1 control or 1 ace
step 2 : 2 controls (not 1 ace)
step X : X controls]

[trump-ask :
step 1: 5-6, no top honor (AKQ)
step 2: 5 to a top honor
step 3: 6 to a top honor
step 4: 5 to 2 top honors
step 5: 6 to 2 top honors
step 6: 5-6 to all 3 top honors
followup : new suit : [suit-ask]]

// when trump length is known

[trump-strength-ask :
step 1 : no top heart honors
step 2 : 1 top heart honor w/o JH
step 3 : 1 top heart honor + JH
step 4 : 2 top heart honors w/o JH
step 5 : 2 top heart honors + JH
step 6 : 3 top heart honors
followup : [A1-control-ask] unless
if controls known \geq X, then [X-control-ask]
if controls already known, then [suit-asks]]

[suit-ask :
{step 1 : 3 or 4 small
step 2 : third round control (xx, Qx, Qxx, Qxxx)
step 3 : singleton or void
step 4 : Kxx, Axx, Kxxx, Axxx}
rebid of suit: length-ask
step 1 : 3 cards or singleton
step 2 : 4 cards or void
step 5 : Kx, Ax, K, A
step 6 : two top honors]

[side-suit ask (over 1N/1C):
rebid of major suit : (4333), 3/top 4
new suit : 4
raise : [trump-strength-ask]
cheapest NT : (4333), at most 2/top 4]

[support-ask :

step 1:: 0-3 controls, less than queen-third support

3N : sign-off

step 2:: 4+ controls, less than queen-third support

3N : sign-off

step 3:: 0-3 controls, queen-third+

3N : 0-3 control-ask

4C :: 0 controls, 1 K, or 1 A

4D :: 2 kings

4H :: 3 controls

4S :: 3 controls, 4 trump, stiff or void

4N : stiff ask (can't go beyond 5 suit)

step 4:: 4+ controls, queen-third+

3N : [4-control-ask]

step 5:: 4+ controls, four-card support, no top honor

3N : [4-control-ask]]

[4x1-X-control-ask

Ignore stiff K.

step 1 : X controls

step 2 : X + 1 controls

step 3 : X + 2 controls

etc.

Followup of the stiff is the [4x1-queen-ask], unless responder showed 5 controls, in which case cheapest NT is the [4x1-queen-ask]]

[4x1-queen-ask : grand slam try, responder has a 4x1 hand, ignore stiff queen.

Queens:

0 : cheapest NT

1-2 : suit of cheapest queen

(followup of stiff or cheapest NT ask for more queens.)

3 : bid your stiff]

[minor(20)-control-ask

step 1 : 0-2 controls

step 2 : 3 controls, etc.]

[minor-suit-followups :

followup after a minor-suit-distribution-ask:

bid of responder's primary suit below game is a [trump-strength-ask]

bid of responder's second suit below game is a [trump-strength-ask]

cheapest bid of one of the other suits is a [minor(20)-control-ask]

or [trump-strength-ask] in responder's primary suit when controls known
expensive bid of one of the other suits is also a [trump-strength-ask]
in responder's second suit (when cheapest bid is a game bid)
3N and game bids in responder's suit(s) are always to play.]

[Blackwood interference :

5-level : DOPI

6-level : DEPO

Note that Blackwood never happens after cue-bidding : 4N is a general slam try.]

Opening bid algorithm and a translation table

if HCP >= good 16

opening bid:

open 1N if 16-17 balanced

open 2D if (4441) 16-24 or 26-27 balanced

open 2N if 24-25 balanced

else 1C

else (11-16)

if 45xx or 4414 or 4405 open 2H

else if x5xx open 1H

else if 5xxx open 1S

else if xxx6 open 2C

else if (12-16) open 1D

4N -> Acol 4N

4S -> 4D | 4S

4H -> 4C | 4H

4D -> 3N

4C -> 3N

3N -> 3C

3S -> 3S (no AKQ)

3H -> 3H (no AKQ)

3D -> 3D (no AKQ)

3C -> nothing

2N -> 1C

2S -> 2S

2H -> 2D

2D -> nothing

2C -> 1C | 2D | 2N

1N -> 1N

1S -> 1C | 1S

1H -> 1C | 1H | 2H

1D -> 1C | 1D | 2D
1C -> 1C | 1D | 2C | 2H

1 CLUB

1C : balanced, 18-23 HCP OR 24+ with 6+ AKs
OR 4441 25+ HCP
OR unbalanced 16+ HCP

1D :: 0-8 HCP
1M :: 5+, 9+ HCP, gf
1N :: balanced, 9-14 HCP, gf
2C :: 5+, clubs longest, 9+ HCP, gf
2D :: 5+, diamonds longest(could have equal # of clubs), 9+ HCP, gf
2H :: 1444, 1+ controls, 9+ HCP, gf
2S :: 4441, 1+ controls, 9+ HCP, gf
2N :: (4333) or (4432), 15+ HCP, gf
3C :: 4414, 1+ controls, 9+ HCP, gf
3D :: 4144, 1+ controls, 9+ HCP, gf
3H :: AKQJ sixth anywhere, 10+ HCP, gf
3S :: AKQ seventh anywhere, no outside A or K, gf
3N :: AKQ seventh anywhere, at least one outside control, gf
4C :: AKQ eighth anywhere, gf

1D RESPONSE TO 1C

1C : 1D :: 0-8 HCP(or 9 HCP with 0 controls)
:: 1H : (1) 5+ hearts OR
(2) balanced, 20-23 HCP, forcing
1S :: artificial and forcing (bid 95% of the time)
1N : balanced, 20-21 HCP
(see 1N open for followup)
"2H : strong two hearts, no 5 card suit (21+ HCP), gf
2S :: 5+, at most 2 hearts, 5-8 points
2N : 5332
3H : 6+
3X : 4
2N :: balanced, 2 hearts, 7-8 HCP
3C :: double negative, 0-5 HCP (still gf)
3D :: 5, at most 2 hearts, 3+ D HCP, 5-8 HCP

3H :: 3+, 5-8 HCP
 new suits : could be new suit or an ace
 3S :: splinter, 5-8 HCP
 3N :: undefined
 4m :: splinter, 5-8 HCP
 4H :: 4+, a doubleton, no controls or singletons"
 2N : balanced, gf, 6+ AKs.
 2X : 4+, 5+ hearts
 3m : 5(?)+, 5+ hearts, forcing
 "3H : 6 hearts, no 4 card side suit (16-23)"
 3S : reverse(4+ spades), forcing
 1N :: balanced, 7-8 HCP
 2X :: 6-7, no side 4 hcp, 0-3 HCP, 0 controls
 3X :: KQJ sixth/seventh,
 1S : usually 5, 16-19 HCP
 P :: at most 2 spades, 0-4 HCP
 1N :: at most 2 spades, 5-8 HCP
 2X :: at most 2 spades, 5+, 3-8 HCP
 2S :: 3+, 4-7 points
 2N :: 3(433), good 7-8 HCP
 3C :: 3 spades, stiff somewhere, 7-8 HCP
 3D :: 6+ (mini-splinter with 3m?)
 3H :: 3 spades, 5+, 7-8 HCP
 3S :: 4, 7-9 points
 3N :: balanced, 4-5 spades, 8-9 points, forcing
 4S : to play
 4X : slam try
 4S :: 4+, sign-off, 0-6 points
 4X :: splinter, 9-11 points
 1N : balanced, may have 5cM, 18-19 HCP
 [see 1N open for followup]
 2C : unbalanced, clubs longest, 16-21 HCP
 P :: 0-5 HCP, no suit
 2D :: artificial and forcing, 6-8 HCP
 2M :: 5-6, 5-8 HCP
 2N :: balanced, no 4cM, 6-bad 8 HCP
 3C :: 3+, no 5cM, 5-8 HCP (points?)
 3X :: KJT sixth+, 4-8 HCP, forcing to 4C
 3N :: balanced, 2 stoppers outside, good 8 HCP
 4C :: 4+, 8-10 points (no stiff outside?)
 4X :: splinter, 8-10 points
 2D : unbalanced, diamonds longest, 16-21 HCP
 P :: 0-5 HCP, no suit
 2M :: 5-6, 4-8 HCP
 2N :: balanced, no 5cM, 6-7 HCP, asks for 4cM
 3C :: 5-6, 5-8 HCP
 3D :: 3+, no 5cM, 5-8 points
 3M :: KJT sixth+, 4-8 HCP, forcing to 4D

3N :: balanced, 2 stoppers outside, 8 HCP
 4D :: 4+, 8-10 points (no stiff outside?)
 4X :: splinter, 8-10 points
 "2H : xx(54)+, 19+ HCP (19-21 balanced)
 2S :: waiting, 6-8 HCP
 {2N : 22(54), 19-20 HCP
 3C : (31)45, 19-20 HCP
 3D : xx5(4-5), 19-20 HCP
 3H : 3, 19+ HCP
 3S : 3, 19+ HCP
 3N : 22(54), 20-21 HCP}
 4m :: invitational to game in m
 2N :: 6-8 HCP with most strength in majors
 3m :: to play
 3M :: 5-6, forcing
 4m :: invitational to game, not many high cards
 4H :: slam try in clubs
 4S :: slam try in diamonds"
 2S : strong two spades, almost gf (see 3C rebid)
 2N :: balanced, 2 spades, 7-8 HCP
 3C :: double negative, 0-5 HCP (can pass 3S rebid with 0-3
 HCP)
 3D :: 5, at most 2 spades, 3+ HCP in diamonds, 5-8 HCP
 3S :: 3+, 5-8 HCP
 new suits : could be new suit or an ace
 3H :: 5+, at most 2 spades, 5-8 HCP
 3N :: undefined
 4S :: 4+, doubleton on side, no controls or singletons
 4X :: splinter, 5-8 HCP
 2N : balanced, 22-23 HCP, no 5cM
 3C :: [stayman], 3-8 HCP
 3D : no 4cM
 3M : 4, 5 card other major
 3N : sign-off
 4m : 5+, 4cM, forcing
 3H : 4 hearts
 3S : artificial slam try in hearts
 3N : 4 spades, to play
 4m : 5+, 4cM, forcing
 3S : 4 spades (does not deny 4 hearts)
 3N : 4 hearts, to play
 4m : 5+, 4cM, forcing
 4H : artificial slam try in spades
 3D :: [ace-showing jacyby transfer] 5+ hearts, 0-8 HCP
 3H : less than 4 hearts
 3S : 4 hearts, ace of spades, many controls
 3N : undefined (3433, 23 HCP?)
 4m : 4 hearts, ace, many controls

3H :: [ace-showing jacyby transfer] 5+ spades, 0-8 HCP
 3S : less than 4 spades
 3N : undefined (3433, 23 HCP?)
 4X : 4 spades, ace, many controls
 3S :: [minor suit stayman]
 3N : to play
 4m :: strong suit
 4M :: 0-1
 4m : 3+, slam try
 3N :: sign-off
 4C :: minor-suit slam try, 6-7 card minor, 6-8 HCP
 4D : no interest
 4H : slam try if responder has clubs
 4S : slam try if responder has diamonds
 4N : slam try in either minor
 4D :: [modified roman redwood] (RKC?) (NOT texas)
 4H : 0/3 aces
 4S : 1/4 aces
 4N : 2 aces
 4M :: 6+, slam interest, not forcing (NOT texas)
 4N :: balanced slam try, 10 HCP
 3C : strong two clubs, forcing
 3D :: double negative, at most 2 clubs, 0-4 HCPa
 OR 3334--aiming for 3N.
 3H :: 5+, could have 3 clubs, 5-8 HCP
 3S :: 5+, could have 3 clubs, 5-8 HCP
 3N :: balanced, 5-8 HCP
 4M : 4
 4C :: 3+, 5-8 points
 4X :: splinter, 4-8 HCP
 opener now bids 1st-round controls
 4N :: undefined
 5C :: 4-5, a doubleton, no controls or singletons
 3D : strong two diamonds, forcing
 3H :: double negative, at most 2 diamonds, 0-4 HCP
 OR 3343--aiming for 3N.
 3S :: 5+, could have 3 diamonds, 5-8 HCP
 3N :: balanced, 6-8 HCP
 4M : 4
 4C :: 5-6, 5-8 HCP
 4D :: 3+, 5-8 points
 4H :: 5-6, 5-8 HCP
 4S :: splinter, 5-8 HCP
 4N :: splinter in hearts, 5-8 HCP
 5C :: splinter, 5-8 HCP
 5D :: 4-5, a doubleton, no controls or singletons
 3M : 9 tricks in hearts
 P :: no cover card

4M :: 1 cover card
 new suit :: cue-bid with slam interest
 jump shift :: splinter, 3+ hearts, 2+ controls(6-8 HCP)
 3N : semi-balanced, solid 6-7 minor, 18-21 HCP, two stoppers
 [acol]
 4m : undefined (6-5 in minors? 4M is an ace;
 4N two top minor honors)
 4M : 7+, 16-19 HCP
 P :: less than 2 aces
 any bid :: 2 aces exactly
 4N : balanced, exactly 31 HCP
 5N :: Q or QJ
 6N :: two queens or a control, less than 6 HCP
 7N :: 6+ HCP

 1 MAJOR RESPONSE TO 1 CLUB

1C : 1M :: 5+, 9+ HCP, gf
 1N : control-asking bid
 2C :: 0-2 controls
 2D : re-ask
 2H :: 0 or 1 king
 2S :: 1 ace
 2N :: (5332), 2 kings
 3C :: 4+, 2 kings
 3D :: 4+, 2 kings
 3M :: 6+, 2 kings
 3oM :: 4+, 2 kings
 2D :: 3 controls
 2H :: 4 controls
 2S :: 5 controls
 2N :: 6+ controls
 3C : [6-control ask]
 3C :: 5+, 2/top 3 in M and C
 3D : [2-control ask]
 3D :: 5+, 2/top 3 in M and D
 3oM : [2-control ask]
 3H :: if M = H: 6-7, 2 of top 3 and jack
 3S : [2-control ask]
 if M = S: strong 55xx hand
 3S : [trump-ask]
 4C : [2-control ask]
 3S :: if M = H: 56xx hand

if M = S: 6-7, 2 of top 3 and jack
4C : [2-control ask]

after controls are found:
"raising" the suit is a [trump-ask]:

cheapest NT is distribution-ask
responses: new suit : 4+
 rebid of major : 6+
 cheapest NT : 5332
 next NT : 5332 with extra quacks

after dist. ask and a NT response, new suit is queen-ask
responses: other suit : no queen in ask suit, queen in suit bid
 jump shift : queen in ask suit, queen in suit bid
 raise : queen in ask suit, no other queens
 NT : no queens

(note all 4N are natural after 1N rebid since controls are known)

new suit : 4+ (most likely 5), [support-ask]
 jump shift :: strong 55
 jump rebid :: semi-solid suit

jump shift : unbalanced, solid suit (sets trump)
 all responses cue-bids, not shape-showing

double-jump shift : splinter, no 5-card headed by 2/3 top honors
 16-18 HCP

3M : splinter, no 5-card headed by 2/3 top honors, 19-21 HCP
 step 1 :: asks for singleton (forced)
 3N : spade singleton
 4X : singleton

2M : [trump-ask] (reprinted for convenience)
 step 1 : 5 or 6 with 0 top honors
 3M : re-ask
 step 1 :: ten-fifth or worse
 step 2 :: jack-fifth
 step 3 :: ten-sixth or worse
 step 4 :: jack-sixth
 {step 2 : 5 with 1 top honor
 step 3 : 6 with 1 top honor}
 3M : re-ask
 step 1 :: jack
 step 1 : top honor-ask

step 1 :: queen
 step 2 :: king
 step 3 :: ace
 step 2 :: queen, no jack
 step 3 :: king, no jack
 step 4 :: ace, no jack
 step 4 : 5 with 2 top honors
 3M : re-ask
 step 1 :: jack
 step 1 : top honor-ask
 step 1 :: KQ
 step 2 :: AQ
 step 3 :: AK
 step 2 :: KQ, no jack
 step 3 :: AQ, no jack
 step 4 :: AK, no jack
 step 5 : 6 with 2 top honors
 3N : re-ask (NOT 3M, no space!)
 step 1 :: jack
 step 1 : top honor-ask
 step 1 :: KQ
 step 2 :: AQ
 step 3 :: AK
 step 2 :: KQ, no jack
 step 3 :: AQ, no jack
 step 4 :: AK, no jack

 1 NT RESPONSE TO 1 C

1C : 1N :: balanced, no 5cM, no 5cm with 2 HCP, 9-14 HCP, gf
 2C : balanced(except 4333 18-20 or minimum with 5cM); general
 ask
 2D :: 4 hearts, 9-bad 12 HCP
 2H :: 4 spades, at most 3 hearts, 9-bad 12 HCP
 2S :: no 4 card major, 9-bad 12 HCP (forces 2N?)
 2N :: (4333), good 12-14 HCP
 3C :: (432)4, good 12-14 HCP
 3D :: 3442 or 2443, good 12-14 HCP
 3H :: 44(32), good 12-14 HCP
 3S :: 4342 or 4243, good 12-14 HCP
 3N :: (5332), good 12-14 HCP
 2X : 5+, if X = M then could be balanced 16-18 HCP else
 unbalanced,
 [support-ask]
 other followups besides 3N are natural

3X : solid 6-7(X is trump), stiff/void on side
3N :: no aces and honors in all unbid suits
new suit :: control-showing bid
new suit : control-showing bid, etc.
3N : (4333), 18-20 HCP

1C : 1N :: 2C : 2D :: 4 hearts, 9-bad 12 HCP
2H : [trump-strength-ask]
(response)
2N : [side-suit-ask]
2S : 5(332), 19+ HCP
2N :: 2 spades, 9-10 HCP
3S :: 3+
3N :: 2 spades, 11-12 HCP
3X :: two of top three honors in this suit
4S :: good trumps
4X :: undefined (all three top honors?)
2N : [side-suit-ask]

1C : 1N :: 2C : 2H :: 4 spades, at most 3 hearts, 9-bad 12 HCP
2S : [trump-strength-ask]
2N : [side-suit-ask]
3H : (3)5(32), 19+ HCP
3S :: two top honors
3N :: 2 hearts
4H :: 3 hearts
4m :: honor-third of hearts, 1+ QT in m

1C : 1N :: 2C : 2S :: no 4 card major, 9-bad 12 HCP, (forces 2N?)
2N : distribution-ask (after this, OPENER NTs: sign-off)
3C :: xx44, 9-11 HCP
3D : [trump-strength-ask]
3H : major-suit-ask
3S :: 3 spades
3N :: 3 hearts
4m : [trump-strength-ask]
3S : [A1-control-ask]
4C : [trump-strength-ask]
3D :: 33(43)
3H : minor-suit-ask
3S :: 4 clubs
4C : [trump-strength-ask]
4D : [A1-control-ask]
3N :: 4 diamonds
4C : [A1-control-ask]
4D : [trump-strength-ask]
3H :: 2344, two small spades, 11-12 HCP
3S : [A1-control-ask]

3N : sign-off
4m : [trump-strength-ask]
4H : sign-off
3S :: 3244, two small hearts, 11-12 HCP
3N : sign-off
4m : [trump-strength-ask]
4H : [A1-control-ask]
4S : sign-off
3N :: (5332)
4C : 5-card-minor-ask
4D :: 5 clubs
4H : [A1-control-ask]
4H :: 5 diamonds
4S : [A1-control-ask]

1C : 1N :: 2C : 2N :: (4333), good 12-14 HCP (forces 3C?)
3C : distribution-ask
3D :: 4 diamonds
3H :: 4 hearts
3S :: 4 spades
3N :: 4 clubs
followup : [A1-control-ask]
step 2 followup : [trump-strength-ask
in responder's suit]

1C : 1N :: 2C : 3C :: (432)4, good 12-14 HCP
3D : second-suit-ask
3H :: 4 hearts
3S : [A1-control-ask]
4C : [trump-strength-ask] (in clubs)
4D : [trump-strength-ask] (in hearts)
4H : sign-off
3S :: 4 spades
4C : [trump-strength-ask] (in clubs)
4D : [A1-control-ask]
4H : [trump-strength-ask] (in spades)
4S : sign-off
3N :: 4 diamonds
4C : [trump-strength-ask] (in clubs)
4D : [trump-strength-ask] (in diamonds)
4H : [A1-control-ask]
4C : [trump-strength-ask]

1C : 1N :: 2C : 3D :: 3442 or 2443, good 12-14 HCP
3H : [trump-strength-ask]
3S : [A1-control-ask]
4D : [trump-strength-ask]

1C : 1N :: 2C : 3H :: 44(32), good 12-14 HCP
(if opener wants to ask in both, start with 3S)
3S : [trump-strength-ask]
 followup : [A1-control-ask]
 cheapest minor : [trump-strength-ask] in H
4C : [A1-control-ask]
 followup of 4M is sign-off (can't ask)
4D : [trump-strength-ask] (in hearts)

1C : 1N :: 2C : 3S :: 4342 or 4243, good 12-14 HCP
4C : [A1-control-ask]
 followup : 4S : sign-off
 4N : sign-off
 5C : [trump-strength-ask] (in diamonds)
 5D : sign-off
 5H : [trump-strength-ask] (in spades)
4D : [trump-strength-ask]
 non-pointed followup : [A1-control-ask]
 non-pointed followup :
 [trump-strength-ask in spades]
4H : [trump-strength-ask] (in spades)
 non-pointed followup : [A1-control-ask]

1C : 1N :: 2C : 3N :: (5332), good 12-14 HCP
4C : minor-suit-ask
 4D :: 5 diamonds
 4H :: [A1-control-ask]
 4H :: 5 clubs
 4S :: [A1-control-ask]

2 MINOR RESPONSE TO 1 C

1C : 2C :: 5+, clubs are longest suit, 9+ HCP, gf
 2D : asks clarification
 2H :: 4+ hearts, 5+ clubs
 2S :: 4+ spades, denies 4 hearts, 5+ clubs
 2N :: 4+ diamonds, 5+ clubs
 3C :: 6-7, no other 4 card suit
 3D :: 4 diamonds and 6-7 clubs
 3H :: (332)5, 0-2 controls
 3S :: (332)5, 3 controls and 9-12 HCP
 3N :: (332)5, 4-6 controls and 9-12 HCP
 4C :: (332)5, 3 controls and 13+ HCP

4D :: (332)5, 4 controls and 13+ HCP

4H :: (332)5, 5 controls and 13+ HCP

4S :: (332)5, 6 controls and 13+ HCP

4N :: (332)5, 7 controls and 15+ HCP

2H : 5+,

[support-ask] plus

3S :: 5xx6, with strong blacks (2 top honors in each)

4C :: semi-solid suit, 4+ controls

4D :: xx56, with strong minors (2 top honors in each)

followup with clubs is a [trump-ask] in clubs

any other followup besides 3N is natural

2S : 5+

[support-ask] plus

4C :: semi-solid suit, 4+ controls

4D :: xx56, with strong minors (2 top honors in each)

4H :: x5x6, with strong rounds (2 top honors in each)

followup with clubs is a [trump-ask] in clubs

any other followup besides 3N is natural

2N : 5+ diamonds

[support-ask] in diamonds plus

4C :: semi-solid suit, 4+ controls

4H :: x5x6, with strong rounds (2 top honors in each)

4S :: 5xx6, with strong blacks (2 top honors in each)

followup with clubs is a [trump-ask] in clubs

any other followup besides 3N is natural

3C : [trump-ask]

1C : 2C :: 2D : 2H :: 4+ hearts, 5+ clubs

2S : distribution-ask

{

2N :: 4405

3C :: x4x6 or x4x7

3D :: 1435 (three diamonds)

3H :: 2425, 9-bad 12 HCP

3S :: 3415 (three spades)

3N :: 2425, good 12+ HCP

4C :: x5x6

4D :: 0445}

followups : [minor-suit-followups]

2N : undefined

3C : [trump-ask]

3D : [minor(20)-control-ask]

3H : [trump-strength-ask] in hearts (assume 4)

1C : 2C :: 2D : 2S :: 4+ spades, denies 4 hearts, 5+ clubs

2N : distribution-ask

{3C :: 4xx6 or 4xx7

3D :: 4135

3H :: 4315
3S :: 4225, 9-bad 12 HCP
3N :: 4225, good 12+ HCP
4C :: 5xx6
4D :: 4045}
followups : [minor-suit-followups]
3C : [trump-ask]
3D : [minor(20)-control-ask]
3H : [trump-strength-ask] in spades (assume 4)

1C : 2C :: 2D : 2N :: 4+ diamonds, 5+ clubs
3C : distribution-ask
{3D :: 2245, 9-12 HCP
3H :: 1345
3S :: 3145
3N :: 2245, 13+ HCP
4C :: xx56}
followups : [minor-suit-followups]
3D : [trump-strength-ask] (assume 4)
3H : [minor(20)-control-ask]
3N : to play
4C : [trump-ask]

1C : 2C :: 2D : 3C :: 6-7 clubs, no other four card suit
3D : [minor(20)-control-ask]
followup : 4C : [trump-strength-ask]
else cheapest bid : [trump-strength-ask]
3H : 4-5
3S : top honor in spades
3N : stoppers in pointed suits
4H : queen-third+
4C : default
3S : 4-5
3N : stoppers in reds
4S : queen-third+
4C : default
3N : sign-off
4C : [trump-strength-ask]

1C : 2C :: 2D : 3D :: 6-7 clubs and 4 diamonds
3H : [minor(20)-control-ask]
followup : 4m : [trump-strength-ask]
else
step 1: [trump-strength-ask] in clubs
step 2: [trump-strength-ask] in diamonds
3S : spade stopper, no heart stopper
3N : sign-off
4C : [trump-strength-ask]

4D : [trump-strength-ask]

1C : 2C :: 2D : 3H :: (332)5, 0-2 controls

3S : control-ask

3N :: 0-1 control

4C : [trump-strength-ask]

4C :: 2 controls

4D : [trump-strength-ask] in clubs

3N : sign-off

4C : [trump-strength-ask]

1C : 2C :: 2D : 3S :: (332)5, 3 controls, 9-12 HCP

3N : sign-off

4C : [trump-strength-ask]

1C : 2C :: 2D : 3N :: (332)5, 4-6 controls, 9-12 HCP

P : sign-off

4C : [trump-strength-ask]

4D : [4-control-ask]

{1C : 2C :: 2D : 4C :: (332)5, 3 controls, 13+ HCP

1C : 2C :: 2D : 4D :: (332)5, 4 controls, 13+ HCP

1C : 2C :: 2D : 4H :: (332)5, 5 controls, 13+ HCP

1C : 2C :: 2D : 4S :: (332)5, 6 controls, 13+ HCP}

step 1 : [trump-strength-ask] in clubs

1C : 2C :: 2D : 4N :: (332)5, 7+ controls, 13+ HCP

5C : [trump-strength-ask] in clubs

followup : new suit : ask for 3rd-round control

6C/6N : at best Jxx

7C : Q or xx

5H : re-ask

5S : 7 controls

5N : 8 controls

1C : 2D :: 5+, diamonds are longest suit(clubs may be same), 9+ HCP, gf

2H : asks clarification

2S :: 4+ spades, 5+ diamonds

2N :: 4+ hearts, 5+ diamonds

3C :: 4+ clubs, 5+ diamonds

3D :: 6-7, no other 4 card suit

3H :: 4 hearts, 6-7 diamonds

3S :: (332)5, 0-3 controls and 9-12 HCP

3N :: (332)5, 4-6 controls and 9-12 HCP

4C :: (332)5, 3 controls and 13+ HCP

4D :: (332)5, 4 controls and 13+ HCP

4H :: (332)5, 5 controls and 13+ HCP

4S :: (332)5, 6 controls and 13+ HCP
 4N :: (332)5, 7 controls and 15+ HCP
 2S : 5+ spades
 [support-ask] plus
 4C :: xx65, with strong minors (2 top honors in each)
 4D :: semi-solid suit, 4+ controls
 4H :: x56x, with strong reds (2 top honors in each)
 followup with diamonds is a [trump-ask] in diamonds
 any other followup besides 3N is natural
 2N : 5+ hearts,
 [support-ask] in hearts plus
 4C :: xx65, with strong minors (2 top honors in each)
 4D :: semi-solid suit, 4+ controls
 4H :: 5x6x, with strong pointeds (2 top honors in each)
 followup with diamonds is a [trump-ask] in diamonds
 any other followup besides 3N is natural
 3C : 5+,
 [support-ask] plus
 4D :: semi-solid suit, 4+ controls
 4H :: x56x, with strong reds (2 top honors in each)
 4S :: 5x6x, with strong pointeds (2 top honors in each)
 followup with diamonds is a [trump-ask] in diamonds
 any other followup besides 3N is natural
 3D : [trump-ask]

1C : 2D :: 2H : 2S :: 4+ spades, 5+ diamonds
 2N : distribution-ask
 {3C :: 4153
 3D :: 4x6x or 4x7x
 3H :: 4351, 9-bad 12 HCP
 3S :: 4252
 3N :: 4252, good 12+ HCP
 4C :: 4054
 4D :: 5x6x
 4H :: 4450}
 followups : [minor-suit-followups]
 3D : [trump-ask]
 3C : [minor(20)-control-ask]
 3S : [trump-strength-ask] (assume 4)
 3N : to play

1C : 2D :: 2H : 2N :: 4+ hearts, 5+ diamonds
 3C : distribution-ask
 {3D :: 1453
 3H :: 2452, 9-bad 12 HCP
 3S :: 3451
 3N :: 2452, good 12+ HCP
 4C :: 0454

4D :: x56x}
followups : [minor-suit-followups]
but if no room for d-ask,
more expensive free bid is d-ask

3D : [trump-ask]
3H : [trump-strength-ask] (assume 4)
3S : [minor(20)-control-ask]
3N : to play

1C : 2D :: 2H : 3C :: 4+ clubs, 5+ diamonds

3D : distribution-ask
{3H :: 1354
3S :: 3154
3N :: 2254, 9-bad 12 HCP
4C :: xx55
4D :: xx64}
followups : [minor-suit followups]
(note: no d-ask after 4D)
{
4H :: 2254, 3 controls, 13+ HCP
4S :: 2254, 4 controls, 13+ HCP
4N :: 2254, 5+ controls, 13+ HCP
}
followups : [minor-suit followups]
but note cheap free suit is d-ask
{
5C :: xx65, 0-10 minor HCP
5D :: xx65, 11+ minor HCP
}
followups : 5H : [trump-strength-ask] in C
5S : [trump-strength-ask] in D
3H : [minor(20)-control-ask]
followups : [minor-suit followups]
3S : spade stopper, no heart stopper
3N : to play
4m : [trump-strength-ask]

1C : 2D :: 2H : 3D :: 6-7 diamonds, no other four card suit

3H : [minor(20)-control-ask]
followups : [minor-suit followups]
3S : spade stopper, no heart stopper
3N : to play
4D : [trump-strength-ask]

1C : 2D :: 2H : 3H :: 4 hearts, 6-7 diamonds

3S : [minor(20)-control-ask]
followups : [minor-suit followups]
3N : to play

4C : [trump-strength-ask] in hearts (assume 4)
4D : [trump-strength-ask] in diamonds

1C : 2D :: 2H : 3S :: (33)5(2), 0-3 controls, 9-12 HCP
3N : to play
4C : [A1-control-ask]
followups : [minor-suit followups]
4D : [trump-strength-ask] in diamonds
followups : [minor-suit followups]

1C : 2D :: 2H : 3N :: (33)5(2), 4-6 controls, 9-12 HCP
4C : [4-control-ask]
followups : [minor-suit followups]
4D : [trump-strength-ask] in diamonds
followups : [minor-suit followups]

1C : 2D :: 2H : 4C :: (33)5(2), 3 controls, 13+ HCP
1C : 2D :: 2H : 4D :: (33)5(2), 4 controls, 13+ HCP
1C : 2D :: 2H : 4H :: (33)5(2), 5 controls, 13+ HCP
1C : 2D :: 2H : 4S :: (33)5(2), 6 controls, 13+ HCP
step 1 : [trump-strength-ask] in diamonds

1C : 2D :: 2H : 4N :: (33)5(2), 7+ controls, 13+ HCP
5C : [trump-strength-ask] in diamonds
followup : new suit : ask for 3rd-round control
6C/6N : at best Jxx
7C : Q or xx
5H : re-ask
5S : 7 controls
5N : 8 controls

OTHER RESPONSES TO 1 C

1C : 2H :: 1444, 9+ HCP, 1+ controls, gf
2S : [4x1-control-ask]
(2N : no fit, 18-19 HCP)
(3S : solid spades, ask for cue-bids?)
(3N : no fit, 20-21 HCP)
(4N : no fit, 22-23 HCP)

1C : 2S :: 4441, 9+ HCP, 1+ controls, gf
3C : [4x1-control-ask]

1C : 2N :: balanced, no 5 card suit, 15+ HCP, forcing to 5 of a suit/5N
3C : asks responder to bid up-the-line
any raise sets trump
cheapest step after a raise is a [3-control-ask]
(so dummy shows controls, not declarer)
skip to 4N after a raise is blackwood (RKC?)

3D : 5-6, [support-ask]
3H : 5-6, [support-ask]
3S : 5-6, [support-ask]
3N : (4333), 18-19 HCP
4C :: asks opener to bid 4 card suit
4C : 5-6, [support-ask]
4N : (4333), 20-21 HCP
5C :: asks opener to bid 4 card suit
7N : balanced, 22-23 HCP

1C : 3C :: 4414, 9+ HCP, 1+ controls, gf
3D : [4x1-control-ask]

1C : 3D :: 4144, 9+ HCP, 1+ controls, gf
3H : [4x1-control-ask]

1C : 3H :: AKQJ sixth anywhere, 10+ HCP, gf
3N : to play
4C : solid suit known to opener, ask for control
(response) :: 4N : describe the control
5C :: king
5D :: ace
4D : asks responder to bid his solid suit
4M : to play

1C : 3S :: AKQ seventh anywhere, no outside A or K, gf
3N : to play
4C : solid suit known to opener, ask for shortness
(response) :: 4N : describe the shortness
5C :: singleton
5D :: void
new suit : [suit-control-ask]
4D : asks responder to bid his solid suit
4M : to play

1C : 3N :: AKQ seventh anywhere, at least one outside control, gf
4C : solid suit known to opener, ask for control
(response) :: 4N : describe the control
5C :: king
5D :: ace
4D : asks responder to bid his solid suit

4M : to play

1C : 4C :: AKQ eighth anywhere, gf

4C : solid suit known to opener, ask for control
(response) :: 4N : describe the control

5C :: king

5D :: ace

4H : asks responder to bid his solid suit

4M : to play

INTERFERENCE OVER 1C

1C (X) - showing strength/takeout

P :: 0-5 HCP

XX :: 9+ HCP, gf

1X :: 5+, 5-8 HCP

1N :: balanced, 6-8 HCP

2C :: 5+, 5-8 HCP

2X :: 5+, 9+ HCP, gf

3X :: semi-solid suit

4X :: solid suit

1C (X) - showing clubs

XX :: 1 top honor in clubs, 4+ clubs

2C :: singleton or void club, gf

1C (1X|2X) - natural

P :: 0-5 HCP or penalty double

X :: 6+ HCP, can be passed

new suit : natural, forcing

new suit :: 5+, 9+ HCP, gf

cue-bid :: 9+ HCP, looking for 3N, gf

new suit :: 5+, 5-8 HCP

1N :: balanced, 6-8 HCP

cue-bid :: (1444) or (0445) where short in X, 9+ HCP, gf

2N :: balanced, two stoppers, 9+ HCP, gf

jump shift :: 6-7, 9+ HCP, gf

double jump shift :: excellent 6-7, 9+ HCP, gf

1C (2S|3X) - natural

P :: 0-6 HCP or penalty double

X :: 7+ HCP, can be passed

new suit : natural, forcing

new suit :: 5+, 9+ HCP, gf

cue-bid :: 9+ HCP, looking for 3N, gf
new suit :: 6+, gf
3N :: to play, 10-12 HCP
jump shift :: excellent 6-7, gf
2N :: balanced, two stoppers, 7-8 HCP

1C (1X/X) - specific two-suiter (showing A and B; E and F are the other two)

P :: 0-5 HCP
X/XX :: penalty oriented (a la unusual vs. unusual)
cheapest cue :: 6-9 HCP, length in C and D, promises another bid
expensive cue :: 9+ HCP, length in C and D, gf
1N :: balanced, 6-8 HCP
1E/1F :: 5+, 5-8 HCP
2N :: balanced, 9+ HCP, gf
jump shift :: 6-7, 9+ HCP, gf
double jump shift :: excellent 6-7, 9+ HCP, gf

1C (1X) - exclusion (shortness in suit X)

X :: 4 cards in suit X, 9+ HCP
1N :: 4-5 cards in suit X, 6-8 HCP
2X :: 5+ in suit X, 9+ HCP, forcing
new suit :: 5+, 5-8 HCP
P :: 0-8 HCP
followup :: X :: 6-8 HCP (with no suit)

1C (1X) - transfer to suit above suit X (suit Y)

P :: 0-5 HCP
X :: 6-8 HCP
1Y :: 9+ HCP, gf
1N :: stopper in Y, 6-8 HCP
new suit :: 5+, 5-8 HCP
2N :: two stoppers in Y, 9+ HCP, gf
2Y :: stiff or void in Y, 4+ in other suits, gf
jump shift :: 6-7, 9+ HCP, gf
double jump shift :: excellent 6-7, 9+ HCP, gf

1C (CRASH) - X for Color, 1D for Rank, 1H for Shape

X/XX :: balanced, 9+ HCP, sets up heat-seeking auction or gf
new suit :: 5+, 9+ HCP, gf
P :: 0-8 HCP, forcing

1C : 1D (1X|2X) - natural

P : minimum, balanced OR penalty pass
X : takeout, shortness in X
1N : balanced, 19-21 HCP, stopper in X
new suit : undefined
jump shift : 5+, 21+ HCP, forcing

cue-bid : 2-suiter, gf

1C : 1D (X) -

XX : defensive hand with strength in doubler's suits

2D : if X shows diamonds, then gf 2-suited cue-bid
else ignore

1 DIAMOND

1D : 1+, 11-16 HCP, catchall

P :: sign-off, 0-5 HCP

1H :: 4+ hearts, 6+ HCP

1S :: 4+ spades, 6+ HCP

1N :: No 4cM, 6-10 HCP

2C :: 5+ clubs, 10+ HCP, forcing, promises another bid

2D :: 4+ diamonds, 10+ HCP, forcing

2H :: strong hearts, 16+ HCP, slam try.

2S :: strong spades, 16+ HCP, slam try.

2N :: balanced, 12-15 HCP or 18-19 HCP, no 4cM

3C :: strong clubs, 16+ HCP, slam try.

3D :: strong diamonds, 16+ HCP, slam try.

3H :: QJ+, 7 hearts, almost nothing outside

3S :: QJ+, 7 spades, almost nothing outside

3N :: balanced, 16-17 HCP, no 4cM,

4C :: undefined (!)

4D :: 7+ diamonds, almost nothing outside

4H :: sign-off

4S :: sign-off

[2N for minors and SWJS over X]

1D (X)

1H :: 5+ hearts, forcing

1S :: 5+ spades, forcing

1N :: balanced, 7-9 HCP

2C :: 5-6 clubs, <10 HCP

2D :: 5-6 diamonds, <10 HCP

2H :: 6+ hearts, 4-7 HCP

2S :: 6+ hearts, 4-7 HCP

2N :: 5 clubs, 5 diamonds, 7-9 HCP

3C :: 6-7 clubs, 7-9 HCP

3D :: 6-7 diamonds, 7-9 HCP

XX :: 10+ HCP, no 5cM

[standard except jump raises are weak js; jump shifts are weak; cue specific]

1D (1H)

X :: 4+ spades, forcing

1S :: 5+, forcing

(1S:)

X :: 4+ hearts, forcing

1N :: semi-balanced, 7-9 HCP, (stopper?)

(1N)

X :: penalty

2C :: 4+, forcing

(2C)

X :: a four-card major, forcing

2D :: 4+

2H :: 5+, forcing

2S :: 5+, forcing

2N :: 12+ HCP, 1.5 plus+ stoppers, gf

3D :: undefined (6+, 5-8 HCP?; diamond raise? (could be 1))

cue :: shows Ax or Kxx or Qxx of hearts

jump shift :: 6+, 5-8 HCP

jump-cue :: undiscussed (stiff?)

1 OF A MAJOR

[forcing NT, rev drury, flannery inference, 2/1 near gf, jordan]

1M : can be strong 4 in 3rd/4th, denies 45, 11-16 HCP

P :: sign-off

1S :: 5+!, forcing

2S : 3

3S : 46 (or splinter)

1N :: forcing if nonpassed, 0-12 HCP

2m : 3+

2D :: to play

2M :: 2+, 0-6 HCP, to play

2oM :: to play

2N :: at most 2 of M, semi-balanced, 10-12 HCP

3C :: 5+, 9-10 HCP

3D :: 10 minor cards, 9-10 HCP

3M :: 3, semi-balanced, 10-12 HCP

2H : rebid is 6+; new suit is 54+ in majors

2S :: can only be correction (impossible 2s?)
2S : rebid is 6+; new suit is exactly 46 in majors.
2N :: invitational
3m :: to play
3M :: invitational
2N : 6(322), 15-16 HCP,
3m : sign-off
3M : sign-off
all other responses to play
3m : 5+
3H : rebid is 6-7, unbalanced; new suit is 55 majors
3S : rebid is 6-7, unbalanced; new suit is 56 majors, strong
4M : sign-off

2m :: non-passed: 5+, lawrence gf
followups -- look at lawrence
passed: [reverse drury] (make this 2-way!)

2oM :: gf or undiscussed (wjs)
2M :: 3+, 7-9 HCP
3M : trump ask
3X : help-suit game try
2N : undefined (short-suit? help-suit?)
4X : undefined (control-asking bid?)

2N :: balanced, 13-15 HCP

3C :: 4+ to jack, strong(13+?) [Roth 3C]
3D : shows shortness somewhere
3H :: 2 of top three
3S : 1 of top 3 (must bid 3S)
3N :: shortness ask (bid shortness)
3N : 0 of top 3, nothing to cue-bid(except shortness)
4C :: shortness ask (what if club/spade short?)
4M : 0 of top 3, no interest
4X : 0 of top 3, cue-bid, slam interest
3S :: A|K, no Q
3N : 2 of top 3
4C :: shortness ask (see above)
4M : to play
4X : at most 1 of top 3, cue-bid
3N :: No A or K (no way to find shortness after this)
4m : cue-bid, slam interest
4M : to play
3H : 2 of top three trump, no shortness
3S :: 1 of top 3
3N :: 0 of top 3, nothing to cue-bid, slam interest
4m :: 0 of top 3, cue-bid, slam interest

4M :: to play
3S : A|K, no Q, no shortness
3N :: 2 of top 3
4m :: 1 of top 3, slam interest
4M :: to play
3N : no A or K, no shortness
4m :: cue-bid, slam interest
4M :: to play
4M : undefined (super-solid suit with no control interest??)
4X : solid trumps, [suit-control-ask]
3D :: strong jump shift, 16+ HCP? (bergenize?)
jump shift in oM :: strong jump shift, 16+ HCP?
3M :: 4+, 10-12 HCP (bergenize?)
3N : Mathe asking bid (change meanings of 3S / 3N over 3H?)
3N :: 4+, strong preempt, stiff, no more than 1 king outside, good trump

4m :: splinter, 11-13 HCP
double jump shift in oM : splinter, 11-13 HCP
4M :: to play (weaker than 3N)

1M (overcall) is same as 1D except jump raise is limit(4+ trump)
[in particular, cue-bids promise Ax or (K|Q)xx]
(bergenize?)

1M (X) is same as 1D except 2N is jordan(4+ trump)
(BROMAD?)

1 NOTRUMP

[forcing stm, adv. jxf, mss, gerber, texas]
1N : semi-balanced, 15-17 HCP, may have 5cM
P :: no 5cM or 6cm, 0-7 HCP
2C :: [forcing stayman] hand described later
{
2D : no 4cM
2H : 4+ hearts
2S : 4+ spades, denies 4 hearts
}
2S/2H :: 4+ (because 2N artificial)
2N :: 8-9 HCP, could have no 4cM
new suit :: 5+, gf (4+ major?)
jump shift :: splinter
(other followups MBC?)

2D :: [advanced jacyby transfer] 5+ hearts
 2H : less than 3 hearts or 15-16 HCP
 2S :: 55xx, 4-6 HCP
 jump shift :: 6-7 hearts, no 4 card side suit, splinter

non-heart suit : doubleton, 17 HCP
 2N : x3xx, 17 HCP
 3H : 3433, 17 HCP
 (other followups MBC?)

2H :: [advanced jacyby transfer] 5+ spades
 2S : less than 3 spades or 15-16 HCP
 3H :: 55xx, 10+ HCP, gf
 jump shift :: 6-7 hearts, no 4 card side suit, splinter
 (other followups MBC?)

non-spade suit : doubleton, 17 HCP
 2N : 3xxx, 17 HCP
 3S : 4333, 17 HCP

2S :: [minor suit stayman] relay to 2N, promises (45) in minors
 2N : 3C :: 5+5+ minors, 0-9 HCP
 3D : to play
 2N : 3D :: 5+5+ minors, 10+ HCP, forcing to 4m
 2N : 3H :: 31(45), 10+ HCP
 2N : 3S :: 13(45), 10+ HCP
 2N : 3N :: 22(45), 10-13 HCP, both doubletons weak

2N :: relay to 3C
 3C : P :: 6+ clubs, obviously to play
 3D :: 6+ diamonds, sign-off

 3H :: 40(54), 8+ HCP
 3S :: 04(54), 8+ HCP
 3N :: 22(54), 14-15 HCP, both doubletons weak
 4m :: 5+, balanced, 15-16 HCP

3C :: (4441) with a black stiff, 9+ HCP
 3D : singleton ask
 3H :: spade stiff
 3S : control-ask
 step 1 :: 1-2 controls
 step 2 :: 3 controls, and so on
 3S :: club stiff
 4C : control-ask
 step 1 :: 1-2 controls
 step 2 :: 3 controls, and so on

3D :: 4(14)4, 9+ HCP
 3H : singleton ask
 3S :: diamond stiff
 4D : control-ask

step 1 :: 1-2 controls
step 2 :: 3 controls, and so on
3N :: heart stiff
4H : control-ask (switch this?!)
step 1 :: 1-2 controls
step 2 :: 3 controls, and so on
3H :: 6-7 strong clubs, no 4 card side suit, slam interest
3S :: 6-7 strong diamonds, no 4 card side suit, slam interest
3N :: sign-off
4C :: [Gerber]
4D :: [Texas] 6+, transfer to 4H
4H : 4N :: [Blackwood]
4H :: [Texas] 6+, transfer to 4S
4S : 4N :: [Blackwood]
4S :: xx66, weak suits
4N :: 4333, 15-16 HCP (see 2N for 5cm)

(1N (2X)

X :: penalty
2Y :: to play
2N :: [lebensohl] relay to 3C
3C : (3Y < X) :: to play
(3Y > X) :: invitational
3X :: stayman, stopper in X
3Y :: forcing
3X :: [stayman] no stopper in X
3N :: to play if opener has stopper in X

1N (3X)

X :: negative?
what else?

1N (X) play DONT?
)

2 CLUBS

2C : 6, 11-16 HCP
P :: sign-off
2D :: artificial, asks for further description
2H : 4cM
2S :: major ask
{
2N : 4 hearts

3C : 4 spades
 }
 3D :: slam try
 3M :: invitational
 3N :: to play
 4M :: to play
 2N :: no 4cM, 10-11 HCP, invitational
 3C :: 2+(3+?), 9-11 HCP
 3M :: 6+, 12+(?) HCP
 3N :: to play
 4C :: 3+, slam try in clubs
 4M :: undefined (to play? solid suit?)
 5C :: sign-off
 2S : no 4cM, 12-14 HCP
 2N :: invitational to 3N
 3C :: to play
 3D :: stopper ask
 3H : heart stopper
 3S : spade stopper
 3N : diamond stopper
 (4C : no stopper?)
 3M :: 6+
 3N : singleton or void
 4C : 7+, bad for notrump
 4D : undefined (advance cue-bid?)
 4M : 2+
 3N :: to play
 4C :: 3+, slam-try in clubs
 5C :: sign-off
 2N : two outside stoppers, 14-16 HCP
 3C :: invitational to 3N or 5C
 3D :: stopper-ask ["Diamond stopper-ask"]
 3H : hearts and diamonds
 3S : spades and diamonds
 3N : not diamonds
 3M :: 6+ (nf)
 4M : 2+
 4X : 2+, control for slam
 3N :: to play
 4C :: 3+, slam try in clubs
 5C :: sign-off
 3C : 6-7, good suit, one outside stopper, no outside four-card suit
 3D :: stopper-ask
 3M : major
 3N : diamonds
 3M :: 6+ (nf)
 4M : 2+
 4X : 2+, control for slam

3N :: to play
 4C :: invite to game
 4D :: 3 clubs, slam try in clubs
 4M : cue-bid
 4N : diamond cue-bid
 5C : sign-off
 5C :: sign-off
 3D : 4-5, 6+ clubs, 14-16 HCP
 3M :: 6+
 3N :: to play
 4m :: slam try in m
 4H :: [Blackwood: 03/14/2] (RKC for diamonds)
 5C :: sign-off
 3H : x5x6
 3S :: undefined
 3N :: to play
 4C :: invite to game in clubs
 4D :: slam try in hearts
 4H :: to play
 4S :: [Blackwood: 03/14/2] (RKC for hearts)
 5C :: sign-off
 3S : 5xx6
 3N :: to play
 4C :: invite to game in clubs
 4D :: slam try in spades
 4H :: [Blackwood: 03/14/2] (RKC for spades)
 4S :: to play
 5C :: sign-off
 3N : no singleton, AKQ clubs, two outside queens+
 5C :: sign-off
 2M :: 5+ (not forcing), 0-11 HCP
 P : 12-14 HCP, 2-3 in M
 2S : 5
 2N : unbid suits stopped, 15-16 HCP
 3C : preference
 3D : 5
 3M : undefined (invite to game? 3 card support with 15-16?)
 3H : 5
 4M : 4
 2N :: balanced 10-11 or 5cM 12+ HCP, forcing
 3C : 12-14 HCP
 3M :: 5, 12+ HCP, forcing
 4M : 3
 3N : denies 3-card support
 3D : 4-5, 6 clubs, 14-16 HCP
 3H : 3-4, 14-16 HCP
 3S : 3-4, at most 2 hearts, 14-16 HCP
 3N : no 3 card major or 4 card diamond suit, 14-16 HCP

3C :: probably denies 4cM, invites to game in clubs (? HCP)

3D : 4+

3M : 5

4M :: 3

3N : to play

3X :: 6-7, good suit, gf

3N :: balanced, all suits stopped, 15-16 HCP (not forcing)

4C :: 3-4, sign-off, 0 HCP

4D :: [Modified Roman Redwood]

{

4H : 0/3 aces

4S : 1/4 aces

4N : 2 aces

5C : 2 aces + QC

}

5D :: king-ask(03/14/2)

4M :: sign-off

5C :: sign-off

2C (overall) X :: negative thru 4s

2C (double) XX :: undefined (ignore competition when appropriate?)

2 DIAMONDS

2D : (4441), 16-24 HCP

OR 6 hearts, 6-12 HCP

(change range?)

OR balanced, 26-27 HCP, 3-4 Qs, 9+ points in quacks (balanced duck)
(forcing)

2H :: not strong enough to bid over weak-two in hearts

P : weak-two in hearts

(after a non-pass, all non asks are signoffs unless 4m, which
are invitational to game in minor)

2S : major stiff, 16-19 HCP

2N :: asking bid

3C : 4144

3H :: strength ask

{

3S : 16-17 HCP

3N : 18-19 HCP

}

4H :: [4-control ask]

response : 5H :: [queen ask]

3D : 1444, 16-17 HCP

3S :: [4-control ask]
 response : 4S :: [queen ask]
 3H : 1444, 18-19 HCP
 3S :: [4-control ask]
 response : 4S :: [queen ask]
 2N : 4441, 16-19 HCP
 3C :: strength ask
 {
 3D : 16-17 HCP
 3H : 18-19 HCP
 }
 4C :: [4-control ask]
 response : 5C :: [queen ask]
 3C : 4414, 16-19 HCP
 3D :: strength ask (step 1 = 16-17; step 2 = 18-19)
 {
 3H : 16-17 HCP
 3S : 18-19 HCP
 }
 4D :: [4-control ask]
 response : 5D :: [queen ask]
 3D : 4144, 20-24 HCP
 3H :: [6-control ask]
 response : 4H :: [queen ask]
 3H : 1444, 20-24 HCP
 3S :: [6-control ask]
 response : 4S :: [queen ask]
 3S : 4441, 20-24 HCP
 4C :: [6-control ask]
 response : 5C :: [queen ask]
 3N : balanced duck

 2S :: 5+, forcing
 2N : (4441), 16-19 HCP
 3C :: singleton-ask
 3D : heart stiff
 3H : spade stiff
 3S : club stiff
 4C : diamond stiff
 further cues : 4-control then queen
 3m : 3-4, honor, 6+ hearts, 9-12 HCP
 3D :: gf
 3M :: to play
 4X :: gf
 3H : 6+, 6-9 HCP
 3S : A/K/Q-doubleton or three, 6+ hearts
 3N : 4441, 20-24 HCP
 4C : 4414, 20-24 HCP

4D : 4144, 20-24 HCP
 4H : 1444, 20-24 HCP
 4S : to play
 4N : 6-control ask
 2N :: balanced, forcing
 3C : 6+ hearts; 2/top 3, 3/top 5 (good suit)
 3H :: to play
 other :: gf
 3D : 6+ hearts; maximum
 3H :: forcing
 3N : balanced
 other : unbalanced
 3H : 6+ hearts; minimum
 3S : 4441, 16-24 HCP
 4C :: 4-control ask
 3N : 6+ hearts; AKQ of hearts
 4C : 4414, 16-24 HCP
 4D :: 4-control ask
 4D : 4144, 16-24 HCP
 4H :: 4-control ask
 4H : 1444, 16-24 HCP
 4S :: 4-control ask
 3C :: 5+, game invite values (14+ HCP?), forcing
 3D : feature in diamonds, maximum weak two
 4C :: to play
 other :: gf
 3H : 6+, minimum weak two
 3S : feature in spades, maximum weak two, gf
 3N : 6+ hearts, maximum weak two, at least Qx in pointed suits
 4C : 3+, 6+ hearts
 4D : 4144, 16-24 HCP
 4H : 1444, 16-24 HCP
 4S : 4414, 16-24 HCP
 4N : 4441, 16-24 HCP
 3D :: 5+, game invite values (14+ HCP?), forcing
 3H : 6+, minimum weak two
 3S : feature in spades, maximum weak two, (gf?)
 3N : 6+ hearts, maximum weak two, at least Qx in black suits
 4C : 4144, 16-24 HCP
 4D : 3+, 6+ hearts
 4H : 1444, 16-24 HCP
 4S : 4414, 16-24 HCP
 4N : 4441, 16-24 HCP
 3H :: 3, preemptive (how show balanced wonder -- 4N?)
 3S : 4441, 16-24 HCP
 3N : 4144, 16-24 HCP
 4C : 4411, 16-24 HCP
 4D : 1444, 16-24 HCP

4H :: to play if weak-two
4S : 4441, 16-24 HCP
4N : 4144, 16-24 HCP
5C : 4411, 16-24 HCP
5D : 1444, 16-24 HCP

2D (overcall) X :: penalty
2D : response (overcall) X : opener has 4441 and 4 in the suit overcalled
2D : response (overcall) next step : opener has 4441 and 1 in the suit
2D (X) same except XX is used for X.

2 HEARTS

2H : 4414 or 4405, 12-15(poor 16) HCP
OR 45xx, 12-15(poor 16) HCP

P :: sign-off
2S :: sign-off
2N :: distribution-ask
3C : 4414 or 4405
3D :: further-ask
3H : 4414, 12-13 HCP
3S : 4405, 12-13 HCP
3N : 4414, 14-16 HCP, stiff top honor
4C : 4414, 14-16 HCP, no stiff top honor
4D : 4405, 14-16 HCP

{
3D : 4531 (three diamonds)
3H : 4522, 12-13 HCP
3S : 4513
3N : 4522, 14-16 HCP
4C : 4504 (four clubs)
4D : 4540 (four diamonds)
}

3M : sign-off
3N : to play
{
4m where m is long(3):: slam try in m
4m where m is short :: general slam try
}

4H : sign-off

3C :: good 6+, game invite in NT or clubs
3D :: 6+(3 of top 4), game invite in NT or diamonds
3H :: trump strength-based invite in hearts
3S :: trump strength-based invite in spades
3N :: sign-off

4H :: sign-off
4S :: sign-off

2 SPADES

2S : 6, no void, no 5 card side suit, 2 of top 4, 6-12 HCP
(4N is always blackwood)
P :: sign-off
2N :: general ask
 3C : 6 spades; 2/top 3, 3/top 5 (good suit)
 3S :: to play
 other :: gf
 3D : 6(332); maximum
 3H : 6(331) or 6(421); maximum
 3S : minimum
 3N : 6 spades to the AKQ
 4C : 6xx4, one of top 3 clubs, 9+ black HCP
 4D : 6x4x, one of top 3 diamonds, 9+ pointed HCP
3X :: 5+, game invite values (14+ HCP?), forcing
 3S : no fit, minimum
 3N : high honor in both unbid suits
 4X : A/K/Q doubleton or three
 3Y : control, maximum
3S :: sign-off
3N :: sign-off
4X :: [suit-control-ask]
4S :: sign-off

2 NOTRUMP

2N : balanced, 24-25 HCP, at most 5/8 AKs
P :: no 5cM, 0-1 HCP
3C :: [stayman] (puppet this!), forcing
 3D : no 4cM
 3H :: 5 spades, 4 hearts
 3S :: 4 spades, 5 hearts
 4N :: balanced, 8 HCP
3M : 4
 3/4oM :: slam try in M
 4N :: balanced, 8 HCP
3D :: [jxf] 5 hearts, 0-16 HCP, forcing
 3H : default
 4N :: balanced, 7-8 HCP

new suit afterwards is [suit-control-ask]
(other new suits) natural, forcing

3N : 8+ minor, no ace, 2-8 HCP
P :: sign-off
4C :: to play four of opener's minor
4D :: to play four diamonds or five clubs
4M :: to play
4N :: [small slam force]
5m : at most 1 top trump honor
5N : 2 top honors in 8 card club suit
6C : 2 top honors in 8 card diamond suit
5C :: to play five of opener's minor
5D :: to play
5N :: [grand slam force]
6m : at most 1 top trump honor
7m : 2 top trump honors

4C : 7-8 hearts, HK, 9-15 HCP, 2 2nd round controls, 8-9 tricks
4D :: quick-loser ask
4H : no 2-loser suit, non-solid trumps
4S : two losers in spades
4N : no 2-loser suit, solid trumps
5C : two losers in clubs
5D : two losers in diamonds
4H :: to play
4N :: [blackwood] (maybe kickback it to 4S?)

4D : 7-8 spades, SK, 10-15 HCP, 2 2nd round controls, 8-9 tricks
4H :: quick-loser ask
4S : no 2-loser suit, non-solid trumps
4N : no 2-loser suit, solid trumps
5C : two losers in clubs
5D : two losers in diamonds
5H : two losers in hearts
4S :: to play
4N :: [blackwood]

4M : 74 or 8, 0-10 HCP
new suit : to play
4N :: [blackwood] (kickback rkc?)
5M :: trump-ask
6M : can play trumps for 1 loser opposite xx

4N : [Acol 4N]
5C :: 0 aces
5D :: DA
5H :: HA
5S :: SA
5N :: 2 aces
6C :: CA