The Continuous Combinatorial Auction Architecture

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On-Line Appendix

Interfaces

The interfaces presented here reflect what we have learned about what bidders want to know, aided by strategic considerations from game theory. When observing individual behavior in experiments, we follow the principle that the individual is an optimizer subject to perception of conditions and options available. Behavior that is not consistent with the incentives that we know exist are viewed as mistakes or misperceptions that the properly designed interfaces should prevent.

The interfaces produced in the illustrations below reflect the experience gained from experiments. The best way to explain interfaces seems to be to simply show them. The next seven pages are screen shots and explanations of the major functions and how they relate to bidder decisions. The illustrations begin with the home screen and provide a map to the other screens. [Illustrations 1-7]
Illustration 1. Bids, Provisional Winners, Clocks

Watch the Clocks

Real Time orPaused

View the Offers
(Provisional Winners, Complete Offer List)

Fashion Your Offer
1. Make sure you are on one of these
2. Select the Item(s)
3. Add selected to your offer
4. Inspect selected before proceeding
5. Choose price
6. Short cut to price selection: a. Query for amount, b. choose minimum or winning
7. Submit Offer

Illustration 2. Fashion and Submit an Offer
Illustration 3. View the Offers (Provisional Winners)

1. Make sure you are here

- **Purple**
  - Provisional Winner of a single

- **Blue PIC**
  - Provisional Winner of a package offer

- **Black price**
  - High single offer (not winning due to a package offer)

- **Gold**
  - Means you are the Provisional Winner

- **Red dot**
  - Is a new Provisional Winner

- **Black dot**
  - Is new non-winning offer
Each new bid resets the new bid clock to three minutes (unless otherwise announced).

Each new Provisional Winner resets the new winner clock to ten minutes (unless otherwise announced).

The auction ends when either the new bid clock or the new winner clock counts down to zero. Time on both clocks means that the auction is still open for bidding on all items. When the auction ends the Provisional Winners become the Auction Winners.
1. Make sure you are here

2. Cancel a non Provisional Winning offer:
   a. Select the offer
   b. Cancel Selected Bids

3.1 Modify an offer:
   a. Select the offer
   b. Select a new price or c. Change package
d. 

3.2 Modify an offer:
   b. Select a new price or c. Change package

4. Return to **Offer Submission Form**

Total dollars for your provisional winners
Illustration 6. View the Offers (Complete Offer List)

1. Make sure you are here
   - PIC of bidder making the offer,
   - Bid number, Offer price,
   - Items in offer,
   - Time entered

2. Return to Provisional Winners screen

<table>
<thead>
<tr>
<th>PIC</th>
<th>Name</th>
<th>Price</th>
<th>Items</th>
<th>Time entered</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Gold</td>
<td>$1000</td>
<td>1.44</td>
<td>Wed Jun 22 08:07:35 2002</td>
</tr>
<tr>
<td>2</td>
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<td>$1500</td>
<td>1.23</td>
<td>Wed Jun 24 05:41:24 2002</td>
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<tr>
<td>3</td>
<td>Yellow</td>
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<td>Wed Jun 22 09:04:45 2002</td>
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<tr>
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<td>1.01</td>
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<td>0.90</td>
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</tr>
<tr>
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<td>20</td>
<td>Gold</td>
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<td>0.20</td>
<td>Wed Jun 22 06:26:10 2002</td>
</tr>
</tbody>
</table>
Illustration 7. Strategy Tools

1. Select item(s)
2. Add selected to offer
3. Show as Winning
4. Return to Provisional Winners Screen

**Show Bid as Winning**

Your offer if submitted

This offer remains a Provisional Winner

Your offer bumps them

Offer was out and remains out

A partner used to bump packages with your offer