Design Considerations

• Many parsers will generate FORMERR (or other errors) if QDCOUNT > 1

• There's only one RCODE field, but with multiple QNAMEs the answers might give different results (e.g. NOERROR vs NXDOMAIN)

• EDNS RDATA can't be compressed (or can it?)
Proposed Design

- Limit questions to be for all the same QNAME (QDCOUNT == 1)
- Pack a list of additional QTYPE fields into an EDNS0 RR
- The corresponding list in the Response EDNS RR distinguishes between NODATA and "I don't have that data (yet)"
- If the option is ignored the packets behave just like a normal query for the primary QTYPE
Outstanding Design Questions

• What about the AA bit? Only a problem for NS/DS?
• Does it matter?

• OPT format may need a little cleaning up
• QTCOUNT field probably unnecessary, although it does constrain the list size
Any Questions?