Travel Agency [1]

Participants:

- C: Customer
- A: Agency
- S: Service

Original version (with delegation)

$$\mu \texttt{t}.C \rightarrow A \left\{ Request(\texttt{String}).A \rightarrow C \left\{ Price(\texttt{double}).C \rightarrow A \left\{ \begin{matrix} Accept.A \rightarrow S \left\{ Delegate(?\texttt{Address}.!\texttt{Date}).C \rightarrow S \left\{ Address(\texttt{String}).S \rightarrow C \left\{ Date(\texttt{Date}).\texttt{end} \right\} \right\} \right\} \right\} \right\} \right\} \right\} \right\}$$

Without delegation (notice that we have to add a message to S in the branch, otherwise the branches can not be merged.

$$\mu \mathtt{t.C} o A \left\{ Request(\mathtt{String}).A o C \left\{ Price(\mathtt{double}).C o A \left\{ egin{align*} Accept.C o S \left\{ Address(\mathtt{String}).S o C \left\{ Date(\mathtt{Date}).\mathtt{end}
ight\}
ight\} \\ Reject.C o S \left\{ Quit.\mathtt{end}
ight\} \\ Repeat.\mathtt{t} \end{array}
ight\}
ight\}$$

References

[1] Raymond Hu, Nobuko Yoshida, and Kohei Honda. Session-Based Distributed Programming in Java. In Jan Vitek, editor, ECOOP 2008 – Object-Oriented Programming, volume 5142, pages 516–541. Springer Berlin Heidelberg, Berlin, Heidelberg, 2008.