

[21026001]



Also , maintaining current demand assumes no significant slowdown in world economies .
 ace-h _ v:e-i-p ae-p n:x v:e-i-p qi-h-h a_for:e-p n:x p:e-u-i n_of:x-i n:x

[illegible]

Figure 10: Two examples of the proposed semantic network. The first example is a sentence from the Penn Treebank corpus (Penn Treebank Project 1999) and the second example is a sentence from the Brown corpus (Brown et al. 1990). The nodes in the network are the words in the sentence, and the edges are the semantic relations between them. The relations are labeled with the names of the semantic relations (ARG1, ARG2, etc.) and the names of the semantic roles (agent, patient, etc.).

top ARG1
and c
GRAINS AND SOYBEANS :
n:x - named:x-c

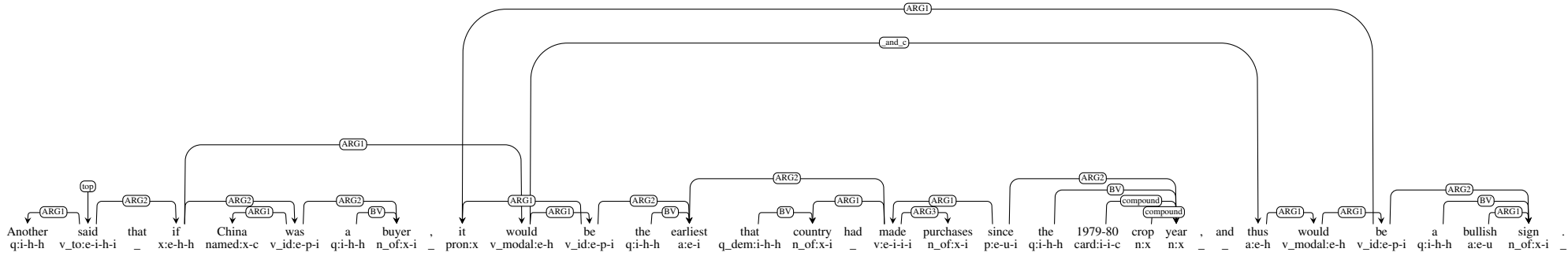
The diagram illustrates a dependency parse tree for the sentence: "Soybean and corn futures prices moved higher on the strength of buying commodity pool managers trying to profit from technical price trends, as well as continued export strength". The tree is rooted at the top with the label "sentence". It branches down to various grammatical functions (ARG1, ARG2, pp, compound) and prepositional phrases (pp). The words are arranged horizontally at the bottom, with arrows indicating the flow of dependencies from the root and other nodes to the words. For example, "ARG1" points to "Soybean", "and", "corn", "futures", "prices", "moved", "higher", "on", "the", "strength", "of", "buying", "commodity", "pool", "managers", "trying", "to", "profit", "from", "technical", "price", "trends", "as", "well", "as", "continued", "export", "strength".

[illegible]

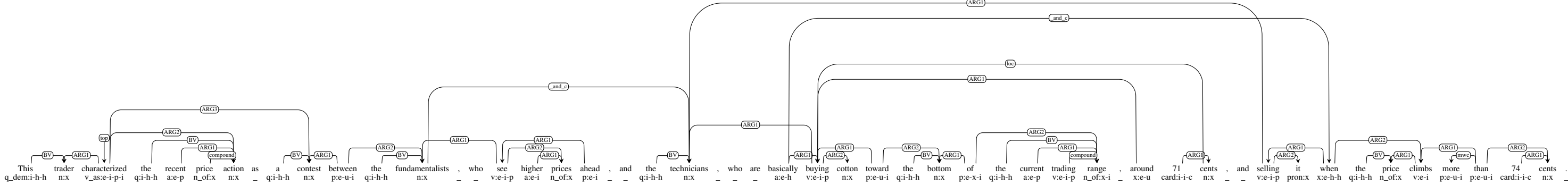
Figure 10: A parse tree for the sentence "Neither Mr. Demis nor officials of his Chicago trading company, C&D Commodities, could be reached for comment." The tree shows the hierarchical structure of the sentence, with nodes labeled with part-of-speech tags (e.g., *NP*, *VP*, *PP*) and the corresponding words. The tree is rooted at *S* and branches down to the individual words, illustrating the syntactic analysis of the sentence.

Figure 10: A parse tree for the sentence "As corn and soybean futures, a lot of commission house buying this morning and computer-driven buying supported prices in early trading, said Steven Freed, a futures analyst with Dean Witter Reynolds Inc. in Chicago, the price of the contract for the first time in 1997." The tree shows the hierarchical structure of the sentence, with nodes labeled with semantic roles (ARG1, ARG2, etc.) and grammatical functions (S, NP, VP, etc.). The sentence is split into two parts by a comma, with the second part starting with "said".

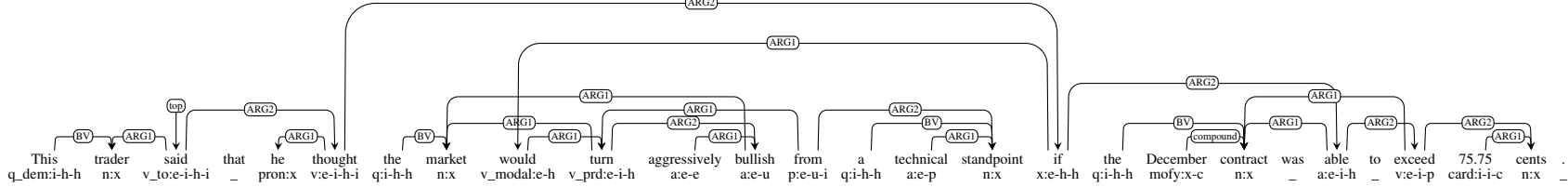
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[21026039]



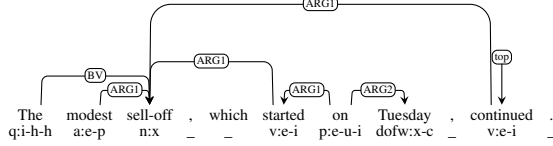
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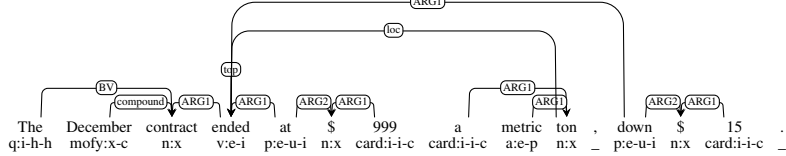
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Cocoa :
n1-n1 _

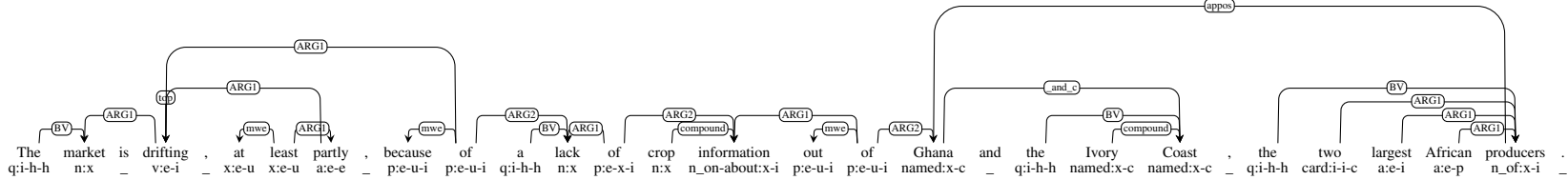
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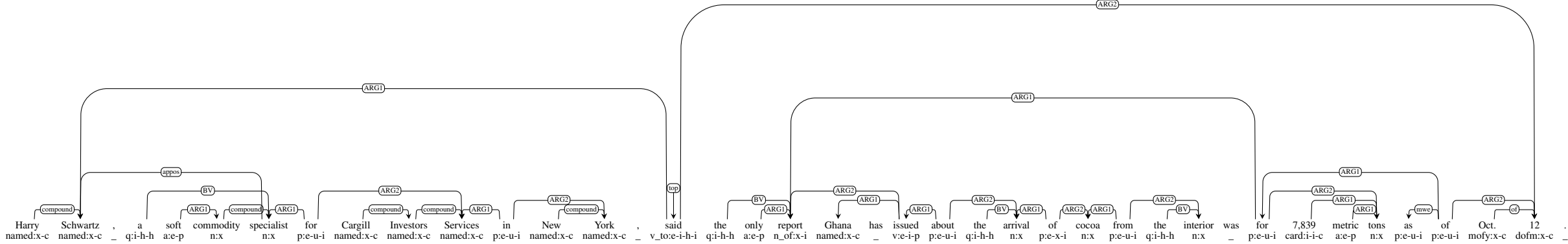
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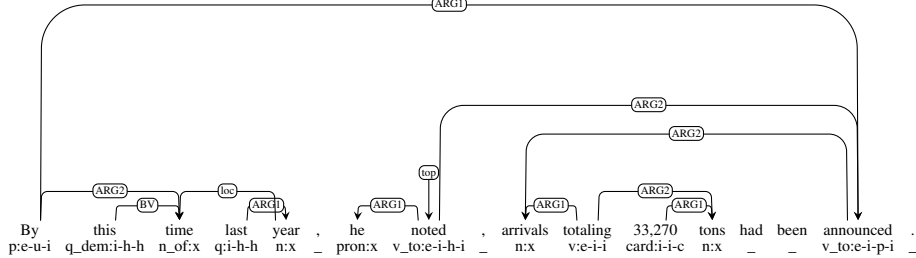
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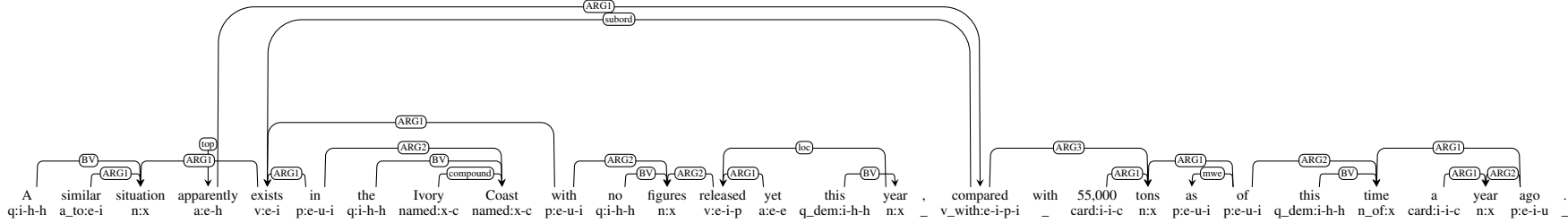
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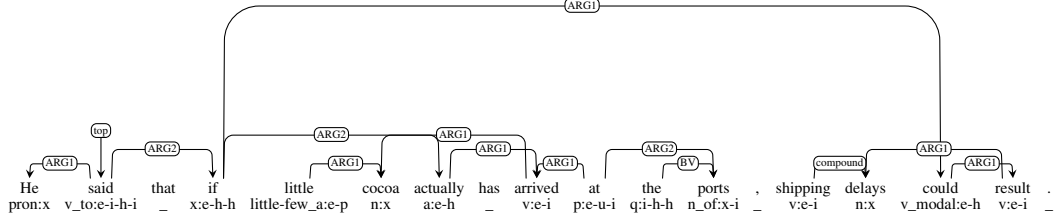
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[21026048]



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