## OU team works on smart computer

The student paused at the computer keyboard, then typed, "I gave the red, to a pape to my teacher." The computer's response appeared what it had never seen an apple. It ared, "What is an apple." A computer that will understand English commands and have a human-tic a new software system being devel-ties and reasoning capacities is the goal of a new software system being devel-executed the computer to any test, and Christian Wagner, engineer-ties, and Christian Wagner, engineer-ties, and testiatian wagner.

ONE KEY to the design is a new grammar developed by Blnkert, a sim-plified grammar with no transforma-tions in syntax.

This allows the computer to describe a word in relation to every other word in a sentence and to provide an unam-biguous interpretation of that word.

BEDS

Binkert is author of the book "Genera-tive Grammar Without Transforma-tions" just published by Mouton. The book describes how the grammar, called residential grammer, simplifies and is more accurate than theories first advanced by linguistic great Noam Chomsky in 1825. If Binkert and Wagner are success-ful, the student in the above illustration would describe what an apple is. In any foture inquiries, the computer would know what an apple is and identify its proper use no matter.

appeared in a sentence. THE RESEARCHERS have applied to the National Science Foundation for a grant to support their research. The new system would include a main-frame computer, robotic manipulator and a vision system. The software package will include the non-transformational grammar parser already developed by Binkert and semantic and pragmatic analyzers. They say the robotic system will be able to respond to natural language sentences with genuine comprehension in terms of its own hardware capabili-ties.

BINKERT HAS been parsing English sentences with his pop-transformation

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tion of computers, the need for comput-er systems that are both intelligent and easy to use is still wirtually unnet. What is needed, they say, "is a com-puter system that is more than just human user and more trackilonal soft-ware functions. What is needed is a computer system with human structure for intelligence and adaption to its en-vironment."

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