EXTENSIONS FOR THE IMAGE BROADCASTING PROTOCOL

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1. Introduction

The image broadcasting protocol (IBP) has mainly didactic applications, but can be adapted for other situations that need transmissions of computer images. IBP operates in a master - slave fashion, and can improve the following activities:

– **Presentations**

The teacher's screen images can be transferred to another computer, or to all the computers handled by IBP.

– **Verifications**

The images from any computer in the network can be transferred to the teacher's screen, or to all the computers (including the teacher's).

All the operations are performed at teacher's commands.

A version of this protocol, for character modes only, is described in [1], together with two implementations. The IPX protocol [2] is used for network services.

The aim of this paper is to extend the IBP, with the possibility of transferring images in any video mode, and to reduce the amount of data transferred through the network by using image compression techniques.