The function is defined for protocol-independent address-to-nodename translation. It performs functionality of and in more sophisticated manner. The arguement is a pointer to a generic socket address structure of size The arguements and are pointers to buffers to hold the return values. Their sizes are specified by and repectively. Either or may be if the hostname or service name is not required. The arguement modifies the behaviour of as follows: If is set only the unqualified hostname is returned for local fully qualified names. If is set then the numeric form of the hostname is returned. If is set, then a error is returned if the hostname cannot be looked up. If is set then the service is returned in numeric form. If is set then the service is UDP based rather than TCP based. R. Gilligan, S. Thomson, J. Bound, and W. Stevens, ‘‘Basic Socket Interface Extensions for IPv6,’’ RFC2133, April 1997. The function is defined IEEE POSIX 1003.1g draft specification, and documented in ‘‘Basic Socket Interface Extensions for IPv6’’