

Chapitre 5 : Fiabilisation de la transmission

5.1 Introduction

Ce chapitre sera consacré à l'étude détaillée de la couche liaison de données, avec un focus sur les différents mécanismes et techniques de détection des erreurs et celles utilisées pour leur correction. Par ailleurs, les méthodes de transmission propres à cette couche seront également présentées, en mettant l'accent sur le protocole HDLC.

5.2 Mécanismes de détection et de correction d'erreurs

Les phénomènes perturbateurs peuvent entraîner des erreurs de transmission en inversant les bits de l'information transmise. Une liaison est caractérisée par son taux d'erreurs T_e appelé aussi **BER (Bit Error Rate)** donné comme suit :

$$T_e = \frac{\text{nombre bits erronés}}{\text{nombre bits total}}$$

Exemple

Info :transmise : 1110001100111100

Info. reçue : 1110101100101100



$$T_e = 2/16 = 12.5\%$$

T_e varie pratiquement entre 10^{-4} et 10^{-9} . Au fait, plusieurs mécanismes sont utilisés pour détecter et éventuellement corriger les erreurs de transmission à savoir la détection par echo, par répétition, par code de parité, CRC et Hamming

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Réseaux Informatiques I Jean Yves Le Boudec (Computer scientist, Switzerland), 2000* *Réseaux informatiques* Danièle Dromard, 1994 **Réseaux informatiques** Philippe Atelin, José Dordoigne, 2006-03 Présentation des principes de base normes architectures courantes c blages codage des données topologie réseaux sans fil interconnexions de réseau etc et des différents protocoles qui comptent dans les réseaux informatiques Ethernet Token Ring Wi Fi Bluetooth ADSL WiMax etc

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Réseaux informatiques intégrés Frank Welch, Marc E.. Levilion, 1993-01-01 Réseaux informatiques José Dordoigne, 2011-02-07 Ce livre sur les réseaux s adresse autant aux débutants désireux de comprendre les réseaux informatiques qu aux informaticiens plus expérimentés souhaitant renforcer et mettre jour leurs connaissances Les principes de base sont présentés normes architectures courantes c blages codage des données topologie réseaux sans fil interconnexions de réseaux puis les différents protocoles qui comptent dans les réseaux informatiques Ethernet Wi Fi Bluetooth ADSL WiMax sont décrits d un point de vue opérationnel sans noyer le lecteur dans un discours trop théorique Une synthèse sur la virtualisation est proposée permettant au lecteur de bien comprendre les enjeux les avantages et inconvénients apportés par les différentes solutions du marché Les technologies ATM et autres relais de trames sont également abordés Les protocoles TCP IP sont présentés en détail en particulier la décomposition en sous réseau en IP v4 ainsi qu une nouvelle approche complète de l adressage IP v6 dont la voix sur IP Un chapitre traite des principes de base de la sécurité face aux menaces qui persistent sur un réseau En annexe est fournie une liste des acronymes les plus significatifs dans le monde des réseaux informatiques

Initiation aux réseaux informatiques Jacques Claviez, 1997 Réseaux informatiques Malek Rahoual, Patrick Siarry, 2006 Ce livre expose en détail le fonctionnement interne des réseaux informatiques depuis la matérielle couche physique jusqu à la couche application Les principes de bases sont présentés normes architectures courantes c blage codage des données topologie réseaux sans fil interconnexions de réseaux Puis l ouvrage décrit les différents protocoles en vigueur dans les réseaux informatiques Ethernet Token Ring Wi Fi Bluetooth ADSL WiMax Les technologies ATM et autres relais de trames sont également abordés La suite de

protocoles TCP IP est pr sent e en d tail Les architectures des principaux r seaux locaux Ethernet Token Ring WiFi 802 11b sont expos es et illustr es par les concepts et techniques relatifs au transfert des informations entre les l ments d un r seau serveurs stations hubs switchs routeurs Ce livre traite aussi des r seaux sans fil Il s ach ve par une description de l tat de la recherche dans le domaine de l optimisation des r seaux de communication Ce support de cours qui pr sente de nombreux exercices est destin aux tudients pr parant une licence un master ou un dipl me d ing nieur en informatique Il peut aider aussi les enseignants dans la pr paration de cours et de travaux dirig s Dans le milieu industriel l ouvrage s adresse aux ing nieurs et techniciens en informatique et en t l communication et s efforce de rapprocher la communaut de la recherche op rationnelle et les informaticiens sp cialis s dans les r seaux

Reseaux informatiques José Dordoigne, 2014-11-12 Ce livre s adresse autant aux d butants d sireux de comprendre les r seaux informatiques qu aux informaticiens plus exp riment s souhaitant renforcer et mettre jour leurs connaissances Il est organis en deux parties correspondant deux livres existants le premier issu de la collection de livres de r f rence Ressources Informatiques le second issu de la collection de livres TP Informatiques Ainsi la premi re partie couvre les notions fondamentales d un point de vue th orique et la seconde partie propose au lecteur de nombreux exercices ainsi qu un ensemble de Travaux Pratiques complets avec leurs corrig s d taill s 1 re partie R seaux informatiques Notions fondamentales Tous les principes de base des r seaux informatiques sont pr sent s et d clin s d un point de vue op rationnel sans noyer le lecteur dans un discours trop th orique 2i me partie Les r seaux Administrez un r seau sous Windows ou sous Linux des QCM des travaux pratiques et leurs corrig s des heures de mise en pratique Les nombreux Travaux Pratiques permettent au lecteur de construire de A Z un environnement virtuel quip d un serveur Windows 2008 R2 et d un ordinateur Linux CentOS

Réseaux informatiques José Dordoigne, 2022

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