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:

(54) CDMA2000 1x EV-DO (BBS:Buff
er BasedScheduler)

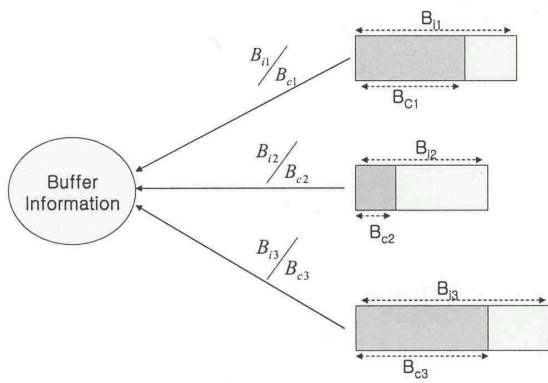
(1) (cellular)

(2) 3G
가 가 PC
(buffer)

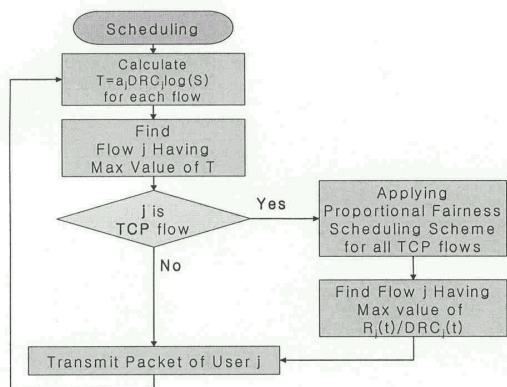
(3) CDMA 1x EV-DO DRC (date rate request channel) 1.67ms
가 ,
, best effort PF
가 (Bi) (jitter)
. Bc
(starvation) IP best effort

t
 $\max_j a_j DRC_j \log(S)$ best effort 가
 (flow) PF
 best effort
 (4)
 est effort PF M-LWDF b
 (jitter)

【도3】



【도5】



CDMA 1x EV-DO, (), , 3G , best effort

1 M-LWDF

2 C/I

3 Bi Bc

4 log scale

5 BBS

CDMA 1x EV-DO
ed-Largest Weighted Delay First)
RF

(moving average)

PF(Proportional Fairness)

. PF

Qualcomm

C/I (carrier to interference)

M-LWDF (Modifi

best effort

best effort

, M-LWDF (1) Lucent
, M-LWDF
) (r(t)), QoS
QoS
가

PF

HOL(head of line) QoS
가 (queue) (W(t)
best effort

CDMA 1x EV-DO

CDMA

SK Telecom

(2.4Mbps)
KTF

3G

가

CDMA
가

VOD

TV

가

가

PC

(buffer)

g order)

(scheduling

가

best effort

PF

CDMA 1x EV-DO DRC (date rate request channel) 1.67ms
가 , best effort PF

[1]

max j a_j DRC_j log(S)

[1]

S

Case	스트리밍	VoIP	Best effort
Value of S	$\frac{B_{ij}}{B_{cj}}$	F(traffic)	2

B_i 가 B_c , a_j type VoIP 1 . V
oIP 가 VoIP 1x EV-DO CDMA 1x CDMA 1x (dual mode) 1x EV-DO
가 VoIP
, Bc Bi/Bc 4 (a) log 4 (a) s t
, 4 (b) log S Bc 가
(Bi) (jitter) data , Bc
data Bi/Bc
(starvation)
, [1] best effort 가 Best effort 가 (flow)
PF best effort

effort type best effort PF best

(jitter) VOD 가 (starvation)

- (57)
1. $([1]) \max_j a_j DRC_j \log(S)$
2. $([1] S) \log \text{ scale}$
3. Best effort $[1] S 2$ PF(Proportional Fairness)

